



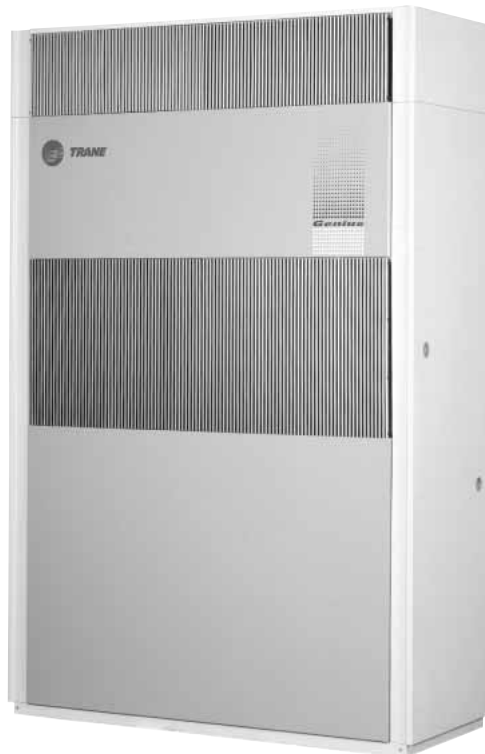
Vertical Self-Contained Air Conditioning

Genius™

Air and Water Cooled

5 - 15 Tons

60 Hz



PKG-PRC007-EN

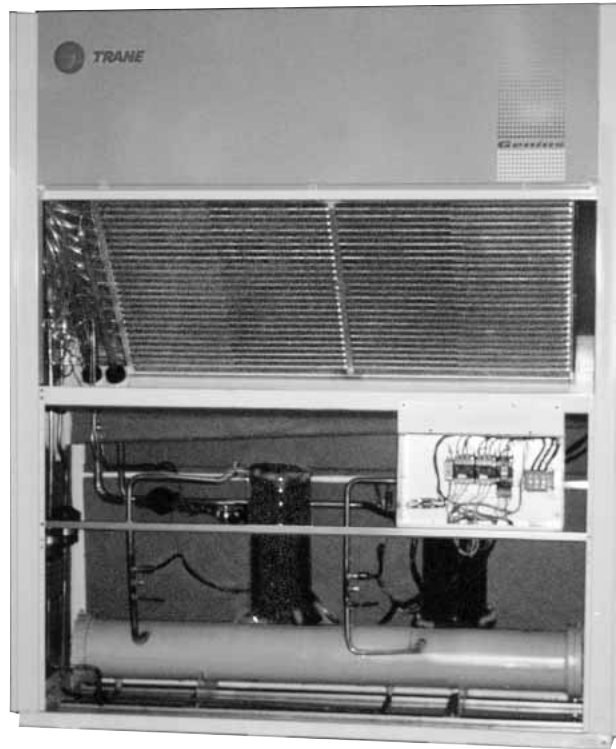


Introduction

The TRANE Company, a world leader in the HVAC industry, has developed another option to meet the needs of our customers . . . the Genius! Built to provide not only the indoor comfort but also the confidence that the unit is reliable, durable, easy to install and maintain.

The Genius line has been designed to satisfy the demands of the international markets.

IAQ standards, microcontrols and simplified maintenance were all considered during its design.



Water Cooled Unit

Contents

Introduction	2
Features and Benefits	4
Model Number Description	8
General Data	9
Selection Procedure	10
Performance Data	11
Controls	36
Electrical Data	37
Dimensions	47
Mechanical Specification	51



Features and Benefits

The Genius line was built to provide not only ultimate indoor comfort but also the comfort of knowing that our self-contained units are reliable as well as easy to install and maintain.

Genius is the most flexible vertical self-contained of the market. Suitable to use in offices, residences or restaurants. Available as water cooled, integrated air cooled (or package unit) or with remote air coded condenser; the modern design of the Genius line allows you, for the first time, to select the color of the unit.

Why Consider Self-Contained Floor-by-Floor Systems?

Improved Cash Management

- Factory installed options and testing; Reduces field labor and installation risk and improves system reliability
- Requires less sophisticated maintenance than built-up systems

Tenant Satisfaction

- Complete HVAC system on each floor or area minimizes tenant inconvenience during routine maintenance.
- Tenants can control system after hours to increase productivity and minimize expense

Low First Cost

- Factory packaged controls and piping reduce field labor, installation time and cost
- Flexible arrangement to match most building configurations

Lower Installed Cost

- Single point power connection
- Single point water connection
- Factory commissioned and tested controls
- Factory installed options



SRVE
(with discharge plenum)

Economical Operation

- Floor-by-floor system results in energy savings since only air conditioners on floors requiring cooling need to operate
- Annual system energy consumption comparable to central chilled water system but with significant energy consumption reduction during partial occupancy and after-hours

Assured Acoustical Performance

- Horizontal discharge plenum provides smooth airflow, reducing static pressure losses for optimum acoustical performance.
- Scroll compressor design smooths gas flow for quieter operation

Micro Controls

Trane was the first to introduce Microelectronics to commercial unitary products and has continued to expand its application to other products.

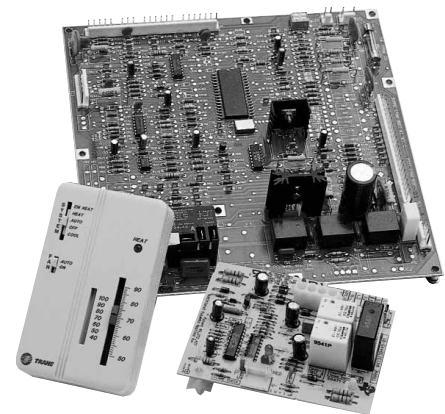
The new self-contained with Micro provides the highest performance, reliability and best serviceability in the industry. Trane, a world class manufacturer can provide this winning combination for your facility.

The Trane Micro, provided as a factory installed option, was designed with two thoughts in mind: reliability and comfort. The Micro accurately orchestrates all other system operations whether it is heating or cooling.

Since it is factory mounted it will provide smooth, trouble-free start-up.

The microprocessor provides powerful operation and diagnostic information. The micro eliminates the need for a field installed anti short-cycle timer and time delay relays, which are an integral part of the micro controller.

The IAQ standard, the microelectronics and the simplified maintenance capability were all considered a priority during the design phase of this self-contained unit.



Features and Benefits

Air Handling Section

In accordance to the ASHRAE Standard 62-89 for Indoor Air Quality, Trane has developed an exclusive and innovative design for the drain pan. This design insures proper drainage, preventing conditions of water stagnation that could result in microbial growth.

All the air handlers feature a factory installed belt drive and ball bearing evaporator fan with adjustable shelves. The unit can be installed indoors; the condenser air can be ducted to the outside or installed in a remote location.

For free horizontal application, the optional discharge plenum with aluminum grills insures a quiet operation and maintains the aesthetics of the units.

In the return section an optional aluminum grill grants an easy and elegant installation.

3 Filter Types

To meet Commercial and Industrial needs you can select the filter media for the application.

Nylon Electrostatic Filters

Wire Mesh Permanent Filters

Throwaway Filters

Many other options available as special (Contact your local Trane Representative).

Scroll Compressor

offers significant efficiency and reliable benefits. With fewer moving parts than comparable reciprocating compressors, there is less internal friction and therefore greater efficiency. A smooth compressor cycle, due to the low torque variation, creates less stress on the motor for greater reliability and efficiency.



How the Scroll Compressor Works

General

The compressor has two scrolls. The top scroll is fixed and the bottom scroll orbits. Each scroll has walls in a spiral shape that intermesh.

Inlet — First Orbit

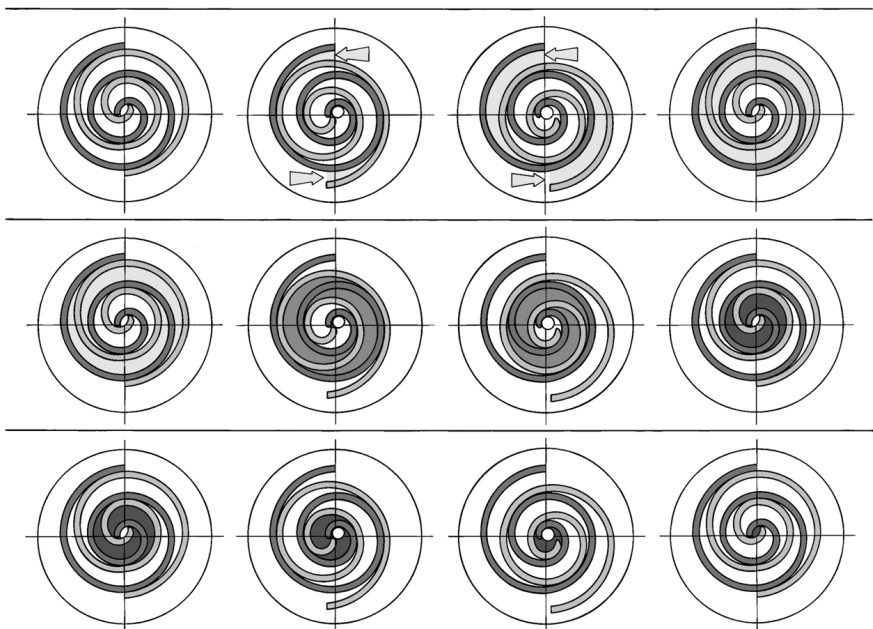
As the bottom scroll orbits, two refrigerant gas pockets are formed and enclosed.

Compression — Second orbit

The refrigerant gas is compressed as the volume is reduced closer to the center of the scroll.

Discharge — Third Orbit

The gas is compressed further and discharged through a small port in the center of the fixed scroll.





Features and Benefits

Integrated Self-Contained Systems: Profitable, Simple

Integrated Comfort™ System (ICS)
Trane's Integrated Comfort™ system improves job profit and increases job control by combining Trane self-contained units and a Tracker® building management system. This integrated system provides total building comfort and control. The primary motivation for building owners/managers in making the purchasing decision of an HVAC controls system is no longer just saving energy; it is having the ability to automate their facilities and the convenience of interface to control systems.



As an additional benefit the Micro allows the Genius to be integrated to the Tracker. This ability allows the multiple units to be controlled and diagnosed from a central location, from across town or even across the country.

Just imagine the HVAC installed in your facility capable of being scheduled, monitored and let you know when it is having problems.

Genius is three times ingenious in many ways.

Available in 3 models

SRVE - Self-contained unit with INTEGRATED air cooled condenser

SIVE - Self contained unit with REMOTE air-cooled condenser

SAVE - Self-contained WATER-cooled unit with shell and tube condenser

Available 3 Colors

The attractive highly functional design of the Genius line offers the customers the selection of three equipment colors to blend with any architectural style:

- Gray
- Black
- Red

3 Motor Sizes

The units have the capability to meet any static pressure application up to 1.5" with their 3 options:

- Low Static Motor Option
- Medium Static Option
- High Static Option

3 Control Options

Standard Thermostat

All units are furnished with a standard thermostat that can be installed remotely or directly on the equipment.



Programmable Thermostat (PT)

PT programming is very simple! PT has a display that shows the hour, the day of the week, the selected program and the ambient temperature. PT can be programmed for up to four setpoints for each day of the week. Using the button "timed-override" the customer can prolong the machine operation beyond the programmed schedule, according to customer needs.



Microcontrol

This state of the art control offers a complete family of sensors and wall mounted devices to compliment the capabilities of the Trane Micro.

3 Filter Options

Three filter options exist which may be installed in Genius units.

1. Permanent washable filters of electrostatic fabric (standard).
2. Disposable 2" filters.
3. The combination of the two placed in series.

Features Summary

Quality and Reliability

- Galvanized steel casing
- Synthetic enamel paint
- Innovative Drain Pan
- Scroll Compressors

Flexibility

- Air or Water Cooled
- Free discharge plenum or ducted discharge
- Voltages available:
220/3/60, 440/3/60, 380/3/60 and 380/50/3

Controls

- Thermostat unit mounted or remote
- Optional Programmable thermostat
- Optional Microprocessor
- ICS compatible, Tracker is your ideal partner for small buildings applications.

Filters

- Throwaway
- Washable - Nylon type
- Washable - Aluminum Mesh

Wide range of Models available:

SRVE: Self Contained with Integral Air Cooled Condenser

SIVE: Self Contained with Remote Air Condenser

SAVE: Self Contained with Water cooled

Nominal Capacity: From 5 to 15 Tons

You can reach up to 1.5" esp with our Double Inlet Forward curved Supply fan. It also has variable V-belt drives.

The case has been insulated with BIDIM insulation.

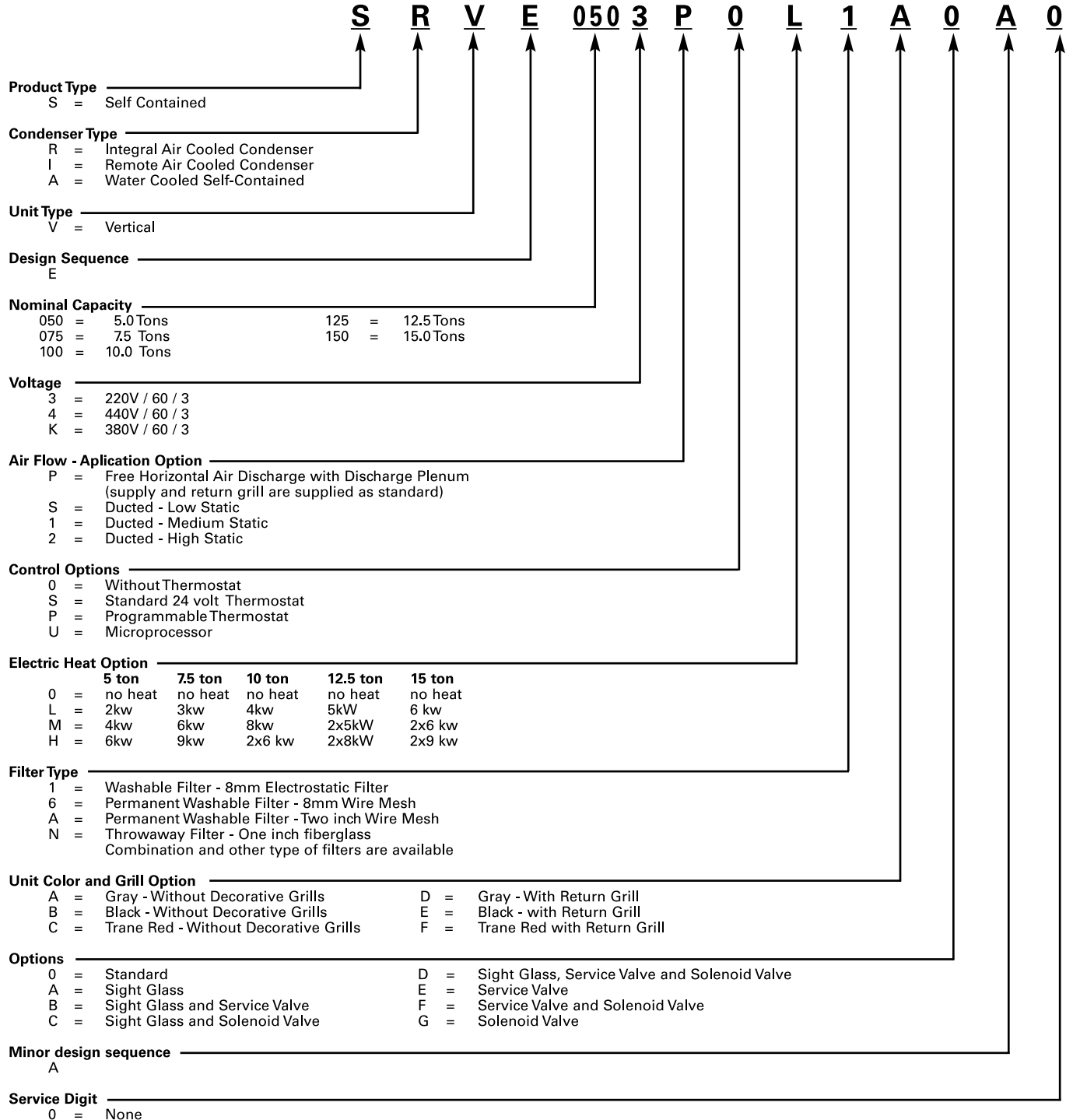
Other options:

Aluminum decorative grill
Plenum discharge box for free air discharge
Service Valves
Sight Glass
Solenoid Valve



Model Number Description

MODEL NUMBER DESCRIPTION





General Data

Table GD-1 — Genius – General Data

SAVE Model	050 T	075 T	100 2T	125 2T	150 2T
Nominal TR Capacity	5	7.5	10	12.5	15
Length (mm)	960	1190	1500	1700	1700
Depth (mm)	600	600	600	600	600
Height (mm)	2000	2000	2000	2000	2000
Height w/ Plenum Box (mm)	2295	2295	2295	2295	2295
Net Weight (kg)	247	288	376	440	461
SRVE Model	050 T	075 T	100 2T	125 2T	150 2T
Nominal TR Capacity	5	7.5	10	12.5	15
Length (mm)	960	1190	1500	1700	1700
Depth (mm)	720	720	830	1000	1000
Height (mm)	2000	2000	2000	2000	2000
Height w/ Plenum Box (mm)	2295	2295	2295	2295	2295
Net Weight (kg)	268	310	416	459	490
SIVE Model	050 T	075 T	100 2T	125 2T	150 2T
Nominal TR Capacity	5	7.5	10	12.5	15
Evaporator Units					
Quantity/Model	1/SIVE050	1/SIVE075	1/SIVE100	1/SIVE125	1/SIVE 150
Length (mm)	960	1190	1500	1700	1700
Depth (mm)	600	600	600	600	600
Height (mm)	2000	2000	2000	2000	2000
Height w/ Plenum Box (mm)	2295	2295	2295	2295	2295
Net Weight (kg)	190	225	235	347	392
Condensing Units					
Quantity/Model	1/CRCB050	1/CRCB075	1/CRCB100	1/CRCB125	1/CRCB150
Length (mm)	987	1241	1341	1646	1646
Depth (mm)	631	631	631	714	714
Height (mm)	890	890	941	1018	1247
Net Weight (kg)	93	124	139	180	212
Compressor					
Quantity TR	1 / 5	1 / 7.5	2 / 5	5 + 7.5	2 / 7.5
Evaporator Coil					
Rows	3	3	3	3	4
Finned Height (mm)	536	508	612	663	714
Finned Length (mm)	711	965	1143	1328	1321
Finned Clearance (m)	0.38	0.49	0.70	0.88	0.94
FPF (Fins Per Foot)	132	132	132	132	132
Evaporator Fan					
Quantity	1	1	2	2	2
Diameter x Length	270 x 270	321 x 321	270 x 270	321 x 321	321 x 321
Plenum Box Option (CV)	0.5	0.5	0.5	0.5	1.0
Standard Motor Option (CV)	1.0	1.5	1.5	2.0	3.0
Motor Option 1 (CV)	1.0	2.0	2.0	3.0	4.0
Motor Option 2 (CV)	1.5	3.0	3.0	4.0	5.0
Minimum Air Flow (m ³ /h)	3060	4590	6120	7650	9180
Maximum Air Flow (m ³ /h)	3825	5740	7650	9560	11475
Condenser Fan (SRVE and CRCB)					
Quantity	1	1	2	2	2
Diameter x Length	321 x 321	321 x 321	270 x 270	321 x 321	321 x 321
Motor (CV)	1.0	3.0	3.0	4.0	5.0
Air Flow (CFM)	5450	8315	9935	13930	17320
Water Condenser (SAVE)					
Minimum Water Flow GPM	1.4	2.0	2.7	3.4	4.1
Maximum Water Flow GPM	4.0	6.0	8.0	9.9	11.9
Maximum Pressure Drop (ca feet)	1.9	4.6	1.8	3.0	3.1
Condenser Coil (SRVE, CRCB)					
Rows	4	4	4	4	4
Finned Height (mm)	711	813	864	940	1168
Finned Length (mm)	762	1016	1143	1473	1473
FPF (Fins per Foot)	168	168	168	168	168



Selection Procedure

The selection of a Genius self-contained unit can be accomplished in three easy steps.

1

LOAD: Determine the load requirements for heating and cooling (include outside air) using Trane's load estimate forms, TRACE® Easy/600 or any standard method.

2

UNIT TYPE: Self-contained air conditioners are available in either water-cooled or remote air-cooled models to match individual needs.

3

SELECT THE UNIT: The conditions under which the unit must operate and the design load will give the final selection.

SELECTION EXAMPLE

Design Conditions

Water-cooled unit

Entering air temperature — 80/67 F

Total gross capacity required — 55,000 BTUH

Entering water temperature — 85 F

Leaving water temperature — 92 F

Airflow — 1,950 CFM at 0.5" duct static pressure.

Voltage

Unit Selection

Tentatively select a 5-ton unit — Model SAVE050. Refer to Table PD-6 to obtain gross total and sensible unit capabilities, gpm, and leaving water temperature at nominal conditions:

Total MBh — 60.6

Sensible MBh — 43.5

GPM — 14.5

LWT — 95

The SAVE-050 meets the total and sensible design requirements.

Since the difference between entering and leaving water is 7°F multiply the capacities and water flow by correction factors on Capacity Correction Factor Table.

Cooling capacity multiplier	1.01
Sensible capacity multiplier	1.05
Water flow multiplier	1.39

$60.6 \times 1.01 = 61.21$ MBh

$43.5 \times 1.01 = 43.94$ MBh

$14.5 \times 1.39 = 20.16$ GPM

Refer to Table PD-1 to determine approximate brake horsepower and fan rpm:

1035 rpm and 0.66 bhp.

Determine net capacities by subtracting fan motor heat from gross capacities:

2.8×0.66 bhp = 1.85 MBh

Net total capacity =

$61.21 - 1.85 = 59.36$ MBh

Net sensible capacity =

$43.94 - 1.85 = 42.09$ MBh

Supply air temperature DB

$Q_s = 1.085 \times \text{CFM} \times (T_r - T_s)$

$42,090 = 1.085 \times 1950 \times (80 - T_s)$

$T_s = 80 - \frac{42,090}{(1.085)(1950)}$

$T_s = 60.1^\circ\text{F}$

Air-Cooled

Design Conditions

— 80 F/67 F DB/WB return air temperature

— 95 F Ambient

— 109300 BTUH Total Net

— 76500 BTUH Sensible Net

— 0.380 External Static Pressure (evaporator fan)

— 4200 CFM

— 0.25 External static pressure (condenser fan)

Required

1. Select unit

2. Fan speed and BHP for

a) Evaporator fan

b) Condenser fan

3. Supply air temperature DB

Solution

1. Select Unit

Initially Select a 10-Ton Unit

From Table PD-13

80/67 EAT

95 F AMB = 118.7 MBh Total Gross

4200 CFM 86.6 MBh Sensible

2. Fan speed and BHP determination

Total Static Pressure

Evaporator

0.380 esp

From Table PD-3

Evaporator

10-ton unit

4200 CFM = 1107 RPM

0.5 ESP = 1.63 BHP

Note: If values fall between cfm's or esp's it is proper to interpolate between values. Do **not** extrapolate beyond values in catalog. Contact Trane marketing department for assistance.

Fan Motor Heat Equation

Fan motor heat = $2.8 \times 1.63 = 4.56$ MBh

Net total capacity = $118.7 - 4.50$

= 114.14 MBh

Net sensible capacity = $86.6 - 4.56$

= 82.04 MBh

Conclusion:

Required — 109300 BTUH Total Net

76500 BTUH Total

Sensible Net

Provided — 114140 BTUH Total Net

82040 BTUH Total Net

The 10-ton unit is the proper choice for this application.



Performance Data

Fan Data

Three transmission options exist for the evaporator fan motor: Std. option, option 1, option 2. In addition, there is an option for those cases in which the unit is operated with a plenum box. The motors for each transmission option can be found in the general facts tables.

Table PD-1 — Fan Performance SRVE/SIVE/SAVE 5 Tons

		External static pressure with permanent air filter inches of water (Pa)													
Option	Model	Airflow		.08 (19.9)		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
STD	5 TR	1802	3060	815	0.40	852	0.43	888	0.45	923	0.48	957	0.51	990	0.54
	MT 1.0 CV	1877	3188	843	0.45	879	0.48	914	0.51	948	0.53	981	0.57		
	MS: 78.5 A 106.5	1952	3315	869	0.50	904	0.53	938	0.56	971	0.59	1003	0.62		
	FS: 184 (8")	2028	3443	897	0.56	931	0.59	964	0.62	996	0.65				
	B: 1X A36	2102	3570	925	0.62	957	0.65	989	0.68						
		2178	3698	952	0.68	984	0.71								
		2253	3825	981	0.75										

		External static pressure with permanent air filter inches of water (Pa)																							
Option	Model	Airflow		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)		.63 (156.9)		.79 (196.7)		.94 (234.1)		1.10 (273.9)					
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP				
OP1	5 TR	1802	3060											1055	0.61	1117	0.68	1176	0.75	1234	0.83				
	MT 1.0 CV	1877	3188											1013	0.60	1076	0.67	1136	0.74	1195	0.81	1251	0.89		
	MS: 78.5 A 106.5	1952	3315											1035	0.66	1096	0.73	1155	0.80	1212	0.88				
	FS: 133 (6")	2028	3443											1027	0.68	1058	0.72	1117	0.79	1175	0.86	1230	0.94		
	B: 1X A32	2102	3570											1020	0.71	1051	0.75	1081	0.78	1139	0.85	1195	0.93	1249	1.01
		2178	3698											1015	0.74	1045	0.78	1075	0.81	1104	0.85	1160	0.92	1215	1.00
		2253	3825	1012	0.78	1042	0.81	1071	0.85	1100	0.88	1128	0.92	1183	0.99	1237	1.07								

		External static pressure with permanent air filter inches of water (Pa)											
Option	Model	Airflow		.94 (234.1)		1.10 (273.9)		1.26 (313.7)		1.42 (353.6)		1.57 (390.9)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
OP2	5 TR	1802	3060										
	MT 1.5 CV	1877	3188										
	MS: 78.5 A 106.5	1952	3315										
	BS: 108 (5")	2028	3443										
	B: 1X A31	2102	3570										
		2178	3698	1269	1.08	1320	1.15	1371	1.23	1420	1.31	1467	1.39
		2253	3825	1289	1.14	1340	1.22	1389	1.30	1437	1.39		

MT = Motor (CV).
 MS = Motor Sheave, variable pitch (mm).
 FS = Fan Sheave (mm).
 B = Belt.



Performance Data

Fan Data

Table PD-2 — Fan Performance SRVE/SIVE/SAVE 7.5 Tons

		External static pressure with permanent air filter inches of water (Pa)													
Option	Model	Airflow		.08 (19.9)		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
STD	7.5 TR	2703	4590	688	0.64	720	0.68	751	0.72	781	0.77	811	0.82	840	0.87
	MT 1.5 CV	2815	4780	712	0.72	743	0.76	773	0.81	802	0.86	831	0.91	859	0.96
	MS: 78,5 A 106,5	2927	4970	735	0.81	765	0.85	794	0.90	822	0.95	850	0.99	877	1.05
	BS: 209 (9")	3041	5163	760	0.90	788	0.95	816	1.00	844	1.05	871	1.10		
	B: 1X A35	3154	5355	784	1.01	811	1.06	838	1.10	865	1.15				
		3267	5548	808	1.12	834	1.17	861	1.22						
		3380	5740	834	1.24	859	1.29								

		External static pressure with permanent air filter inches of water (Pa)																					
Option	Model	Airflow		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)		.63 (156.9)		.79 (196.7)		.94 (234.1)		1.10 (273.9)		1.26 (313.7)		1.42 (353.6)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
OP1	7.5 TR	2703	4590							896	0.97	950	1.08	1002	1.19	1052	1.30	1100	1.41	1147	1.51		
	MT 2.0 CV	2815	4780							913	1.06	966	1.17	1017	1.28	1066	1.39	1113	1.50				
	MS: 78,5 A 106,5	2927	4970							931	1.16	982	1.26	1031	1.37	1079	1.49	1126	1.60				
	BS: 159 (7")	3041	5163							897	1.15	949	1.25	999	1.36	1047	1.47	1094	1.59	1140	1.72		
	B: 1X A32	3154	5355							891	1.21	917	1.26	968	1.36	1016	1.47	1064	1.59	1110	1.71	1154	1.83
		3267	5548			886	1.27	912	1.32	937	1.37	986	1.47	1034	1.58	1080	1.70	1125	1.83				
		3380	5740	885	1.34	910	1.39	935	1.44	959	1.49	1007	1.59	1053	1.70	1098	1.83	1142	1.96				

		External static pressure with permanent air filter inches of water (Pa)									
Option	Model	Airflow		1.26 (313.7)		1.42 (353.6)		1.57 (390.9)			
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
OP2	7.5 TR	2703	4590								
	MT 3.0 CV	2815	4780					1159	1.61	1204	1.75
	MS: 80 A 110	2927	4970					1171	1.74	1215	1.88
	BS: 118 (5")	3041	5163					1184	1.86	1227	2.03
	B: 1X B27	3154	5355					1198	2.01	1240	2.17
		3267	5548			1169	1.97	1211	2.16	1253	2.34
		3380	5740			1185	2.15	1227	2.32	1268	2.50

MT = Motor (CV).
 MS = Motor Sheave, variable pitch (mm).
 FS = Fan Sheave (mm).
 B = Belt.



Performance Data

Fan Data

Table PD-3 — Fan Performance SRVE/SIVE/SAVE 10 Tons

		External static pressure with permanent air filter inches of water (Pa)											
Option	Model	Airflow		.08 (19.9)		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
STD	10 TR	3604	6120	839	0.84	875	0.89	911	0.94	945	1.00	979	1.07
	MT 1.5 CV	3754	6375	866	0.94	902	0.99	936	1.05	969	1.11	1002	1.17
	MS: 78.5 A 106,5	3905	6630	895	1.04	929	1.10	963	1.16	995	1.23		
	BS: 184 (8")	4055	6885	924	1.16	957	1.22	989	1.28				
	B: 1X A35	4205	7140	954	1.29	986	1.35						
		4355	7395	984	1.42								
		4505	7650										

		External static pressure with permanent air filter inches of water (Pa)																							
Option	Model	Airflow		.08 (19.9)		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)		.63 (156.9)		.79 (196.7)		.94 (234.1)		1.10 (273.9)		1.26 (313.7)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
OP1	10 TR	3604	6120							1012	1.13	1075	1.26	1136	1.41	1195	1.55	1252	1.71	1307	1.87				
	MT 2.0 CV	3754	6375							1034	1.24	7096	1.38	1156	1.53	1213	1.68	1269	1.83						
	MS: 78,5 A 106,5	3905	6630							1027	1.29	1058	1.36	1118	1.51	1176	1.66	1232	1.81						
	BS: 133 (6")	4055	6885					1021	1.35	1051	1.42	1082	1.49	1140	1.64	1197	1.79								
	B: 1X A31	4205	7140			1017	1.42	1048	1.49	1078	1.56	1107	1.63	1164	1.78										
		4355	7395			1015	1.49	1045	1.55	1075	1.63	1104	1.70	1132	1.77										
		4505	7650	1013	1.56	1043	1.63	1072	1.70	1101	1.77	1130	1.84	1157	1.92										

		External static pressure with permanent air filter inches of water (Pa)																	
Option	Model	Airflow		.63 (156.9)		.79 (96.7)		.94 (234.1)		1.10 (273.9)		1.26 (313.7)		1.42 (353.6)		1.57 (390.9)			
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
OP2	10 TR	3604	6120												1360	2.01	1412	2.16	
	MT 3.0 CV	3754	6375											1322	1.98	1375	2.14	1425	2.29
	MS: 80 A 110	3905	6630							1287	1.97	1340	2.12	1391	2.28	1441	2.43		
	BS: 118 (5")	4055	6885					1252	1.94	1305	2.10	1357	2.26	1407	2.42	1456	2.57		
	B: 1X B31	4205	7140			1220	1.93	1273	2.08	1325	2.24	1376	2.40	1425	2.56	1473	2.71		
		4355	7395	1188	1.92	1242	2.07	1295	2.23	1346	2.39	1395	2.54	1444	2.71				
		4505	7650	1212	2.06	1265	2.22	1316	2.37	1366	2.53	1414	2.69						

MT = Motor (CV).
 MS = Motor Sheave, variable pitch (mm).
 FS = Fan Sheave (mm).
 B = Belt.



Performance Data

Fan Data

Table PD-4 — Fan Performance SRVE/SIVE/SAVE 12.5 Tons

		External static pressure with permanent air filter inches of water (Pa)															
Option	Model	Airflow		.08 (19.9)		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)		.63 (156.9)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
STD	12.5 TR	4505	7650	630	0.81	666	0.89	701	0.98	735	1.08	768	1.18	800	1.29	8.61	1.50
	MT 2.0 CV	4694	7970	649	0.93	684	1.01	718	1.09	751	1.18	783	1.27	814	1.37		
	MS: 78,5 A 106,5	4882	8290	670	1.04	703	1.12	736	1.20	768	1.29	799	1.39	830	1.49		
	BS: 184 (8")	5069	8608	690	1.15	723	1.24	754	1.32	785	1.41	816	1.51	845	1.61		
	B: 1X A33	5256	8925	711	1.28	743	1.37	774	1.46	804	1.55	833	1.65	862	1.75		
		5445	9243	731	1.41	762	1.50	792	1.60	821	1.69	850	1.79				
		5630	9560	753	1.56	783	1.65	812	1.75	841	1.85						

		External static pressure with permanent air filter inches of water (Pa)															
Option	Model	Airflow		.39 (97.1)		.50 (124.5)		.63 (156.9)		.79 (195.7)		.94 (234.1)		1.10 (273.9)			
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
OP1	12.5 TR	4505	7650							919	1.62	975	1.88	1029	2.06		
	MT 3.0 CV	4694	7970					874	1.57	931	1.79	985	2.00	1038	2.23		
	MS: 79 A 105	4882	8290					888	1.69	944	1.91	997	2.13	1049	2.35		
	FS: 169 (7")	5069	8608					902	1.82	957	2.04	1010	2.26	1060	2.48		
	B: 1X B32	5256	8925					918	1.97	971	2.18	1023	2.40				
		5445	9243			878	1.90	932	2.11	985	2.33	1035	2.55				
		5630	9560	868	1.95	896	2.06	949	2.27	1000	2.49						

		External static pressure with permanent air filter inches of water (Pa)															
Option	Model	Airflow		.94 (234.1)		1.10 (273.9)		1.26 (313.7)		1.42 (353.6)		1.57 (390.9)					
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP				
OP2	12.5 TR	4505	7650					1081	2.26	1131	2.52	1179	2.73				
	MT 4.0 CV	4694	7970					1089	2.44	1139	2.65	1187	2.81				
	MS: 79 A 105	4882	8290					1099	2.56	1148	2.77	1195	2.92				
	FS: 143 (6")	5069	8608					1109	2.69	1156	2.89	1203	3.13				
	B: 1X B29	5256	8925			1073	2.62	1121	2.84	1167	2.95	1213	3.20				
		5445	9243			1084	2.77	1131	2.98	1177	3.10						
		5630	9560	1050	2.71	1098	2.93	1144	3.15	1189	3.30						

MT = Motor (CV).
 MS = Motor Sheave, variable pitch (mm).
 FS = Fan Sheave (mm).
 B = Belt.



Performance Data

Fan Data

Table PD-5 — Fan Performance SRVE/SIVE/SAVE 15 Tons

		External static pressure with permanent air filter inches of water (Pa)													
Option	Model	Airflow		.08 (19.9)		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
STD	15 TR	5406	9180	664	1.22	696	1.30	728	1.38	759	1.48	789	1.57	818	1.66
	MT 3.0 CV	5632	9563	686	1.36	717	1.45	747	1.54	777	1.64	806	1.73		
	MS: 79 A 105	5857	9945	707	1.52	737	1.61	766	1.71	795	1.81				
	FS: 219 (9")	6080	10323	728	1.69	757	1.79	785	1.89	813	1.99				
	B: 1X B35	6302	10700	749	1.88	777	1.98	804	2.08						
		6530	11088	771	2.08	798	2.19								
		6758	11475	793	2.30										

		External static pressure with permanent air filter inches of water (Pa)																					
Option	Model	Airflow		.16 (39.8)		.24 (59.8)		.31 (77.2)		.39 (97.1)		.50 (124.5)		.63 (156.9)		.79 (196.7)		.94 (234.1)		1.10 (273.9)		1.26 (313.7)	
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
OP1	7.5 TR	5406	9180											875	1.87	930	2.08	983	2.30	1033	2.52	1082	2.74
	MT 4.0 CV	5632	9563							835	1.83	890	2.03	944	2.25	995	2.47	1045	2.69				
	MS: 79 A 105	5857	9945					824	1.91	852	2.01	906	2.21	958	2.43	1008	2.65	1057	2.87				
	FS: 169 (7")	6080	10323					841	2.09	868	2.19	921	2.40	972	2.61	1021	2.83	1069	3.06				
	B: 1X B31	6302	10700			832	2.19	858	2.28	885	2.39	936	2.59	986	2.80	1034	3.02						
		6530	11088			825	2.29	851	2.40	877	2.50	903	2.60	953	2.81	1002	3.02	1049	3.24				
		6758	11475	819	2.41	845	2.52	871	2.62	896	2.72	921	2.85	970	3.03	1017	3.23	1064	3.46				

		External static pressure with permanent air filter inches of water (Pa)													
Option	Model	Airflow		1.10 (273.9)		1.26 (313.7)		1.42 (353.6)		1.57 (390.9)					
		CFM	(m3/h)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
OP2	15 TR	5406	9180							1130	2.95	1176	3.17		
	MT 5.0 CV	5632	9563					1093	2.91	1140	3.13	1185	3.37		
	MS: 79 A 105	5857	9945					1104	3.10	1150	3.33	1194	3.58		
	FS: 143 (6")	6080	10323					1115	3.29	1160	3.53	1204	3.80		
	B: 1X B29	6302	10700	1081	3.26	1126	3.50	1171	3.77	1214	4.02				
		6530	11088	1095	3.48	1139	3.74	1183	4.00	1225	4.27				
		6758	11475	1108	3.71	1152	4.00	1195	4.20	1236	4.45				

MT = Motor (CV).
 MS = Motor Sheave, variable pitch (mm).
 FS = Fan Sheave (mm).
 B = Belt.



Performance Data

Water Cooled 60 Hz

Table PD-6 — Gross Cooling Capacities SAVE-050

English

		ENT Water Temp (°F)																		
		75									85									
		Entering Wet Bulb Temperature (°F)																		
		61						67			73			61			67			73
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	
1800	75	55.0	45.2	12.8	61.6	35.2	14.5	68.6	24.9	15.9	53.5	44.4	12.8	59.9	34.4	14.5	67.0	24.4	15.9	
	80	55.2	53.1	12.8	61.5	43.4	14.5	68.6	33.1	15.9	53.7	52.3	12.8	59.9	42.6	14.5	66.8	32.4	15.9	
	85	56.7	57.8	13.2	61.5	50.1	14.5	68.5	39.8	15.9	55.4	56.5	13.2	59.8	49.4	14.1	66.8	39.2	15.9	
	90	59.2	60.4	14.1	61.5	56.7	14.5	68.5	46.5	15.9	58.0	59.1	14.1	59.9	56.0	14.5	66.7	45.9	15.9	
1950	75	55.7	46.6	13.2	62.3	36.0	14.5	69.4	25.2	15.9	54.1	45.9	13.2	60.7	35.3	14.5	67.7	24.6	15.9	
	80	56.0	54.9	13.2	62.3	44.7	14.5	69.3	33.8	15.9	54.6	54.1	13.2	60.6	43.5	14.5	67.7	33.2	15.9	
	85	58.0	59.1	13.7	62.2	51.9	14.5	69.3	41.0	15.9	56.7	57.8	13.7	60.6	51.1	14.5	67.6	40.3	15.9	
	90	60.7	61.8	14.1	63.4	58.8	14.5	69.2	48.1	15.9	59.4	60.6	14.1	60.8	58.1	14.5	67.6	47.5	15.9	
2100	75	56.3	48.1	13.2	62.9	36.9	14.5	70.1	25.4	16.3	54.7	47.4	13.2	61.3	36.1	14.5	68.4	24.8	16.3	
	80	56.9	56.6	13.7	62.9	46.0	14.5	70.0	34.5	16.3	55.4	55.7	13.2	61.3	45.3	14.5	68.3	33.9	15.9	
	85	59.1	60.3	14.1	62.8	53.6	14.5	70.0	42.1	16.3	57.9	59.0	14.1	61.2	52.8	14.5	68.3	41.5	15.9	
	90	61.9	63.1	14.5	63.1	60.8	14.5	69.9	49.7	16.3	60.7	61.8	14.5	61.6	60.0	14.5	68.2	49.0	15.9	
2250	75	56.9	49.5	13.7	63.5	37.6	15.0	70.8	25.6	16.3	55.2	48.7	13.2	61.9	37.0	14.5	69.0	25.0	16.3	
	80	57.7	58.1	13.7	63.5	47.3	15.0	70.7	35.3	16.3	56.2	57.0	13.7	61.8	46.5	14.5	68.9	34.5	16.3	
	85	60.3	61.4	14.1	63.4	55.2	15.0	70.7	43.2	16.3	58.9	60.1	14.1	61.8	54.5	14.5	68.9	42.5	16.3	
	90	63.1	64.4	14.5	64.0	62.6	15.0	70.6	51.1	16.3	61.8	63.0	14.5	62.3	61.7	15.0	68.8	50.5	16.3	

Table PD-6 — Gross Cooling Capacities SAVE-050 (Cont.)

		ENT Water Temp (°F)								
		95								
		Entering Wet Bulb Temperature (°F)								
		61			67			73		
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM
1800	75	51.9	43.7	12.8	58.3	33.7	14.1	65.2	23.6	15.9
	80	52.2	51.5	12.8	58.2	41.9	14.1	65.1	31.8	15.9
	85	54.2	55.2	13.7	58.2	48.6	14.1	65.1	38.5	15.9
	90	56.8	57.9	14.1	58.3	55.2	14.1	65.0	45.3	15.9
1950	75	52.5	45.2	13.2	59.0	34.5	14.5	65.9	23.8	15.9
	80	53.0	53.1	13.2	58.9	43.3	14.5	65.8	32.6	15.9
	85	55.4	56.5	13.7	58.9	50.4	14.5	65.8	39.7	15.9
	90	58.1	59.2	14.1	59.1	57.2	14.5	65.7	46.8	15.9
2100	75	53.1	46.6	13.2	59.6	35.4	14.5	66.5	24.2	15.9
	80	54.0	54.6	13.7	59.5	44.5	14.5	66.5	33.3	15.9
	85	56.5	57.6	14.1	59.5	52.2	14.5	66.4	40.8	15.9
	90	59.3	60.5	14.5	59.9	59.1	14.5	66.4	48.3	15.9
2250	75	53.7	48.0	13.2	60.2	36.2	14.5	67.2	24.4	16.3
	80	54.8	55.9	13.7	60.1	45.8	14.5	67.1	33.9	16.3
	85	57.6	58.7	14.1	60.1	53.8	14.5	67.1	41.9	16.3
	90	60.4	61.5	15.0	60.8	60.8	15.0	67.0	49.8	16.3

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)

Capacity Correction Factor Table

Delta T Water (°F)	GPM	Total Cap. MBh	Sens. Cap. MBh
4.5	2.21	1.01	1.01
7.2	1.39	1.01	1.01
10.0	1.00	1.00	1.00
12.6	0.79	0.99	1.00
15.3	0.66	0.99	1.00
18.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-7 — Gross Cooling Capacities SAVE-075

English

		ENT Water Temp (°F)																		
		75									85									
		Entering Wet Bulb Temperature (°F)																		
		61						67			73			61			67			73
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	
2700	75	79.4	64.2	18.1	89.4	49.9	19.8	100.1	35.3	22.0	77.2	63.1	18.1	86.8	48.8	19.8	97.1	34.2	22.0	
	80	79.8	75.6	18.1	89.3	61.6	19.8	100.0	47.0	22.0	77.7	74.3	18.1	86.7	60.6	19.8	97.0	46.0	22.0	
	85	82.5	81.7	18.5	89.1	71.5	19.8	99.9	56.8	22.0	80.6	79.8	18.5	86.6	70.4	19.8	97.0	55.8	22.0	
	90	86.5	85.7	19.4	89.4	81.1	19.8	99.7	66.6	22.0	84.5	83.7	19.4	86.8	79.9	19.8	96.9	65.5	21.6	
2925	75	80.5	66.3	18.1	90.4	51.1	20.3	101.2	35.7	22.5	78.1	65.2	18.1	87.9	50.0	20.3	98.3	34.5	22.0	
	80	81.1	78.1	18.5	90.3	63.6	20.3	101.1	48.2	22.5	79.0	76.8	18.5	87.6	63.0	20.3	98.2	47.0	22.0	
	85	84.4	83.6	18.9	90.3	74.0	20.3	101.0	58.5	22.0	82.5	81.7	18.9	87.6	72.9	20.3	98.1	57.4	22.0	
	90	88.5	87.7	19.8	90.6	84.0	20.3	100.9	68.8	22.0	86.5	85.7	19.8	88.1	82.7	20.3	97.9	67.7	22.0	
3150	75	81.3	68.4	18.5	91.5	52.3	20.3	102.3	36.0	22.5	79.0	67.2	18.5	88.7	51.2	20.3	99.2	34.9	22.5	
	80	124.4	80.3	18.5	91.4	65.5	20.3	102.2	49.1	22.5	80.2	78.9	18.5	88.6	64.4	20.3	99.1	48.1	22.5	
	85	86.1	85.3	19.4	91.3	76.4	20.3	102.1	60.1	22.5	84.1	83.3	19.4	88.6	75.4	20.3	99.0	59.0	22.5	
	90	90.3	89.5	20.3	91.8	86.7	20.3	102.0	71.0	22.5	88.3	87.5	20.3	89.3	85.4	20.3	98.9	69.8	22.0	
3375	75	82.2	70.2	18.5	92.3	53.4	20.7	103.1	36.3	22.5	79.7	69.2	18.5	89.6	52.3	20.3	100.1	35.2	22.5	
	80	83.5	82.3	18.9	92.2	67.3	20.3	103.0	50.2	22.5	81.4	80.6	18.9	89.5	66.2	20.3	100.0	49.0	22.5	
	85	87.7	86.8	19.8	92.1	78.9	20.7	103.0	61.6	22.5	85.6	84.8	19.8	89.4	77.7	20.3	99.9	60.5	22.5	
	90	92.1	91.2	20.3	93.0	89.3	20.7	102.9	73.1	22.5	89.9	89.0	20.3	90.4	87.8	20.7	99.7	71.9	22.5	

Table PD-7 — Gross Cooling Capacities SAVE-075 (Cont.)

		ENT Water Temp (°F)								
		95								
		Entering Wet Bulb Temperature (°F)								
		61			67			73		
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM
2700	75	74.7	62.0	18.1	84.1	47.7	19.8	94.0	33.2	21.6
	80	75.4	73.0	18.1	84.0	59.4	19.8	94.0	44.9	21.6
	85	78.5	77.8	18.5	84.0	69.2	19.8	93.9	54.6	21.6
	90	82.5	81.7	19.4	84.3	78.6	19.8	93.8	64.4	21.6
2925	75	75.6	63.0	18.1	85.0	48.9	19.8	95.1	33.5	22.0
	80	76.7	75.2	18.5	84.9	61.4	19.8	95.0	46.0	22.0
	85	80.3	79.6	18.9	84.9	71.7	19.8	95.0	56.3	22.0
	90	84.4	83.6	19.8	85.5	81.4	20.3	94.9	66.6	22.0
3150	75	76.4	66.0	18.1	85.9	50.1	20.3	96.0	33.8	22.0
	80	78.0	77.1	18.5	85.8	63.2	20.3	95.9	46.9	22.0
	85	81.9	81.2	19.4	85.8	74.1	20.3	95.8	57.9	22.0
	90	86.1	85.3	20.3	86.7	83.9	20.3	95.7	68.8	22.0
3375	75	77.2	68.0	18.5	86.6	51.1	20.3	96.8	34.1	22.5
	80	79.3	78.5	18.9	86.5	65.0	20.3	96.7	47.9	22.5
	85	83.4	82.6	19.8	86.5	76.4	20.3	96.7	59.4	22.0
	90	87.6	86.7	20.3	87.9	86.1	20.3	96.6	70.8	22.0

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)

Capacity Correction Factor Table

Delta T Water (°F)	GPM	Total Cap. MBh	Sens. Cap. MBh
4.5	2.21	1.01	1.01
7.2	1.39	1.01	1.01
10.0	1.00	1.00	1.00
12.6	0.79	0.99	1.00
15.3	0.66	0.99	1.00
18.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-7 — Gross Cooling Capacities SAVE-075

Metric

		ENT Water Temp (°C)																	
		24.0					29.5												
		Entering Wet Bulb Temperature (°C)																	
		16.0			19.5			23.0			16.0			19.5			23.0		
m3/h	Ent. DB (°C)	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s
4590	24	23.3	18.8	1.14	26.2	14.6	1.25	29.3	10.3	1.39	22.6	18.5	1.14	25.4	14.3	1.25	28.4	10.0	1.39
	27	23.4	22.2	1.14	26.2	18.1	1.25	29.3	13.8	1.39	22.8	21.8	1.14	25.4	17.8	1.25	28.4	13.5	1.39
	29	24.2	23.9	1.17	26.1	21.0	1.25	29.3	16.6	1.39	23.6	23.4	1.17	25.4	20.6	1.25	28.4	16.3	1.39
	32	25.3	25.1	1.22	26.2	23.8	1.25	29.2	19.5	1.39	24.8	24.5	1.22	25.4	23.4	1.25	28.4	19.2	1.36
4970	24	23.6	19.4	1.14	26.5	15.0	1.28	29.7	10.5	1.42	22.9	19.1	1.14	25.7	14.6	1.28	28.8	10.1	1.39
	27	23.8	22.9	1.17	26.5	18.6	1.28	29.6	14.1	1.42	23.1	22.5	1.17	25.7	18.5	1.28	28.8	13.8	1.39
	29	24.7	24.5	1.19	26.5	21.7	1.28	29.6	17.1	1.39	24.2	23.9	1.19	25.7	21.4	1.28	28.7	16.8	1.39
	32	25.9	25.7	1.25	26.6	24.6	1.28	29.6	20.2	1.39	25.3	25.1	1.25	25.8	24.2	1.28	28.7	19.8	1.39
5355	24	23.8	20.0	1.17	26.8	15.3	1.28	30.0	10.6	1.42	23.1	19.7	1.17	26.0	15.0	1.28	29.1	10.2	1.42
	27	36.5	23.5	1.17	26.8	19.2	1.28	29.9	14.4	1.42	23.5	23.1	1.17	26.0	18.9	1.28	29.0	14.1	1.42
	29	25.2	25.0	1.22	26.7	22.4	1.28	29.9	17.6	1.42	24.6	24.4	1.22	26.0	22.1	1.28	29.0	17.3	1.42
	32	26.5	26.2	1.28	26.9	25.4	1.28	29.9	20.8	1.42	25.9	25.6	1.28	26.2	25.0	1.28	29.0	20.5	1.39
5740	24	24.1	20.6	1.17	27.1	15.7	1.31	30.2	10.6	1.42	23.4	20.3	1.17	26.2	15.3	1.28	29.3	10.3	1.42
	27	24.5	24.1	1.19	27.0	19.7	1.28	30.2	14.7	1.42	23.9	23.6	1.19	26.2	19.4	1.28	29.3	14.4	1.42
	29	25.7	25.4	1.25	27.0	23.1	1.31	30.2	18.1	1.42	25.1	24.9	1.25	26.2	22.8	1.28	29.3	17.7	1.42
	32	27.0	26.7	1.28	27.2	26.2	1.31	30.2	21.4	1.42	26.3	26.1	1.28	26.5	25.7	1.31	29.2	21.1	1.42

Table PD-7 — Gross Cooling Capacities SAVE-075 (Cont.)

		ENT Water Temp (°C)								
		35.0								
		Entering Wet Bulb Temperature (°C)								
		16.0			19.5			23.0		
m3/h	Ent. DB (°C)	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s
4590	24	21.9	18.2	1.14	24.6	14.0	1.25	27.5	9.7	1.36
	27	22.1	21.4	1.14	24.6	17.4	1.25	27.5	13.2	1.36
	29	23.0	22.8	1.17	24.6	20.3	1.25	27.5	16.0	1.36
	32	24.2	23.9	1.22	24.7	23.0	1.25	27.5	18.9	1.36
4970	24	22.1	18.5	1.14	24.9	14.3	1.25	27.9	9.8	1.39
	27	22.5	22.0	1.17	24.9	18.0	1.25	27.8	13.5	1.39
	29	23.5	23.3	1.19	24.9	21.0	1.25	27.8	16.5	1.39
	32	24.7	24.5	1.25	25.1	23.8	1.28	27.8	19.5	1.39
5355	24	22.4	19.4	1.14	25.2	14.7	1.28	28.1	9.9	1.39
	27	22.9	22.6	1.17	25.1	18.5	1.28	28.1	13.8	1.39
	29	24.0	23.8	1.22	25.1	21.7	1.28	28.1	17.0	1.39
	32	25.2	25.0	1.28	25.4	24.6	1.28	28.0	20.2	1.39
5740	24	22.6	19.9	1.17	25.4	15.0	1.28	28.4	10.0	1.42
	27	23.2	23.0	1.19	25.3	19.0	1.28	28.3	14.0	1.42
	29	24.4	24.2	1.25	25.3	22.4	1.28	28.3	17.4	1.39
	32	25.7	25.4	1.28	25.7	25.2	1.28	28.3	20.7	1.39

Notes:
TGC = Total Gross Capacity (kW)
SHC = Sensible Heat Capacity (kW)

Capacity Correction Factor Table

Delta T Water (°C)	l/s	Total Cap. kW	Sens. Cap. kW
2.5	2.21	1.01	1.01
4.0	1.39	1.01	1.01
5.5	1.00	1.00	1.00
7.0	0.79	0.99	1.00
8.5	0.66	0.99	1.00
10.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-8 — Gross Cooling Capacities SAVE-100

English

		ENT Water Temp (°F)																		
		75									85									
		Entering Wet Bulb Temperature (°F)																		
		61						67			73			61			67			73
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	
3600	75	109.9	87.9	26.0	122.7	68.5	28.6	136.6	48.7	31.7	106.7	86.3	26.0	119.5	67.1	28.6	133.2	47.5	31.3	
	80	110.1	103.3	26.0	122.6	84.1	28.6	136.5	64.4	31.7	107.1	101.7	26.0	119.4	82.7	28.6	133.1	63.1	31.3	
	85	112.7	112.7	26.9	122.5	97.1	28.6	136.4	77.4	31.7	110.1	110.1	26.9	119.3	95.8	28.6	133.0	76.1	31.3	
	90	117.7	117.7	27.8	122.5	110.0	28.6	136.3	90.3	31.7	115.3	115.3	27.8	119.3	108.6	28.6	132.9	89.0	31.3	
3900	75	111.2	90.7	26.4	124.2	70.1	29.1	138.2	49.2	31.7	108.0	89.2	26.4	120.9	68.7	29.1	134.7	47.9	31.7	
	80	111.8	106.8	26.4	124.1	86.7	29.1	138.0	65.8	31.7	108.8	105.1	26.4	120.7	85.3	29.1	134.6	64.6	31.7	
	85	115.3	115.3	27.3	124.0	100.5	29.1	137.9	79.6	31.7	112.7	112.7	27.3	120.7	99.1	29.1	134.5	78.3	31.7	
	90	120.5	120.5	28.2	124.1	114.0	29.1	137.8	93.3	31.7	117.9	117.9	28.2	120.9	112.5	29.1	134.4	92.0	31.7	
4200	75	112.5	93.4	26.9	125.6	71.7	29.5	139.6	49.6	32.2	109.3	91.9	26.4	122.2	70.2	29.1	136.1	48.4	32.2	
	80	113.3	110.1	26.9	125.5	89.2	29.5	139.5	67.2	32.2	110.3	108.2	26.9	122.1	87.9	29.1	136.0	65.9	32.2	
	85	117.6	117.6	27.8	125.3	103.8	29.5	139.4	81.7	32.2	114.9	114.9	27.8	122.0	102.4	29.1	135.9	80.4	31.7	
	90	123.0	123.0	28.6	125.7	117.8	29.5	139.3	96.2	32.2	120.4	120.4	28.6	122.5	116.3	29.5	135.8	94.9	31.7	
4500	75	113.6	96.0	26.9	126.7	73.1	29.5	140.8	50.1	32.6	110.3	94.6	26.9	123.3	71.8	29.5	137.3	48.7	32.2	
	80	114.8	113.0	27.3	126.6	91.7	29.5	140.7	68.5	32.6	111.9	110.9	27.3	123.2	90.2	29.5	137.2	67.3	32.2	
	85	119.7	119.7	28.2	126.5	106.9	29.5	140.6	83.7	32.2	117.0	117.0	28.2	123.1	105.6	29.5	137.1	82.5	32.2	
	90	125.2	125.2	29.5	127.2	121.3	29.5	140.5	99.0	32.2	122.6	122.6	29.5	124.0	119.7	29.5	137.0	97.7	32.2	

Table PD-8 — Gross Cooling Capacities SAVE-100 (Cont.)

		ENT Water Temp (°F)								
		95								
		Entering Wet Bulb Temperature (°F)								
		61			67			73		
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM
3600	75	103.6	84.9	26.0	116.1	65.6	28.6	129.7	46.1	31.3
	80	104.1	100.0	26.0	116.0	81.4	28.6	129.6	61.8	31.3
	85	107.6	107.6	26.9	115.9	94.3	28.6	129.5	74.8	31.3
	90	112.7	112.7	27.8	116.1	107.0	28.6	129.4	87.7	31.3
3900	75	105.0	87.7	26.4	117.5	67.3	29.1	131.1	46.7	31.7
	80	105.8	103.3	26.4	117.4	83.9	28.6	131.0	63.2	31.7
	85	110.1	110.1	27.3	117.3	97.6	28.6	130.9	76.9	31.7
	90	115.3	115.3	28.2	117.7	110.9	29.1	130.8	90.6	31.7
4200	75	106.1	90.3	26.4	118.8	68.8	29.1	132.5	47.1	31.7
	80	107.3	106.2	26.9	118.6	86.4	29.1	132.4	64.6	31.7
	85	112.3	112.3	27.8	118.6	100.9	29.1	132.3	79.1	31.7
	90	117.6	117.6	29.1	119.3	114.5	29.1	132.2	93.5	31.7
4500	75	107.0	93.0	26.9	119.8	70.4	29.5	133.6	47.5	32.2
	80	109.0	108.7	27.3	119.7	88.8	29.5	133.5	65.9	32.2
	85	114.3	114.3	28.2	119.6	104.1	29.5	133.4	81.2	32.2
	90	119.9	119.9	29.5	120.7	117.8	29.5	133.3	96.4	32.2

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)

Capacity Correction Factor Table

Delta T Water (°F)	GPM	Total Cap. MBh	Sens. Cap. MBh
4.5	2.21	1.01	1.01
7.2	1.39	1.01	1.01
10.0	1.00	1.00	1.00
12.6	0.79	0.99	1.00
15.3	0.66	0.99	1.00
18.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-8 — Gross Cooling Capacities SAVE-100

Metric

		ENT Water Temp (°C)																		
		24.0									29.5									
		Entering Wet Bulb Temperature (°C)																		
		16.0						19.5			23.0			16.0			19.5			23.0
m3/h	Ent. DB (°C)	TGC	SHC	I/s	TGC	SHC	I/s	TGC	SHC	I/s	TGC	SHC	I/s	TGC	SHC	I/s	TGC	SHC	I/s	
6120	24	32.2	25.7	1.64	35.9	20.1	1.81	40.0	14.3	2.00	31.3	25.3	1.64	35.0	19.6	1.81	39.0	13.9	1.97	
	27	32.3	30.3	1.64	35.9	24.7	1.81	40.0	18.9	2.00	31.4	29.8	1.64	35.0	24.2	1.81	39.0	18.5	1.97	
	29	33.0	33.0	1.70	35.9	28.5	1.81	40.0	22.7	2.00	32.3	32.3	1.70	34.9	28.1	1.81	39.0	22.3	1.97	
	32	34.5	34.5	1.75	35.9	32.2	1.81	39.9	26.5	2.00	33.8	33.8	1.75	34.9	31.8	1.81	38.9	26.1	1.97	
6630	24	32.6	26.6	1.67	36.4	20.6	1.83	40.5	14.4	2.00	31.7	26.1	1.67	35.4	20.1	1.83	39.5	14.0	2.00	
	27	32.7	31.3	1.67	36.4	25.4	1.83	40.4	19.3	2.00	31.9	30.8	1.67	35.4	25.0	1.83	39.4	18.9	2.00	
	29	33.8	33.8	1.72	36.3	29.5	1.83	40.4	23.3	2.00	33.0	33.0	1.72	35.4	29.0	1.83	39.4	22.9	2.00	
	32	35.3	35.3	1.78	36.4	33.4	1.83	40.4	27.3	2.00	34.6	34.6	1.78	35.4	33.0	1.83	39.4	27.0	2.00	
7140	24	33.0	27.4	1.70	36.8	21.0	1.86	40.9	14.5	2.03	32.0	26.9	1.67	35.8	20.6	1.83	39.9	14.2	2.03	
	27	33.2	32.3	1.70	36.8	26.1	1.86	40.9	19.7	2.03	32.3	31.7	1.70	35.8	25.7	1.83	39.8	19.3	2.03	
	29	34.5	34.5	1.75	36.7	30.4	1.86	40.8	23.9	2.03	33.7	33.7	1.75	35.7	30.0	1.83	39.8	23.6	2.00	
	32	36.0	36.0	1.81	36.8	34.5	1.86	40.8	28.2	2.03	35.3	35.3	1.81	35.9	34.1	1.86	39.8	27.8	2.00	
7650	24	33.3	28.1	1.70	37.1	21.4	1.86	41.3	14.7	2.06	32.3	27.7	1.70	36.1	21.0	1.86	40.2	14.3	2.03	
	27	33.6	33.1	1.72	37.1	26.9	1.86	41.2	20.1	2.06	32.8	32.5	1.72	36.1	26.4	1.86	40.2	19.7	2.03	
	29	35.1	35.1	1.78	37.1	31.3	1.86	41.2	24.5	2.03	34.3	34.3	1.78	36.1	30.9	1.86	40.2	24.2	2.03	
	32	36.7	36.7	1.86	37.3	35.6	1.86	41.2	29.0	2.03	35.9	35.9	1.86	36.3	35.1	1.86	40.1	28.6	2.03	

Table PD-8 — Gross Cooling Capacities SAVE-100 (Cont.)

		ENT Water Temp (°C)								
		35.0								
		Entering Wet Bulb Temperature (°C)								
		16.0			19.5			23.0		
m3/h	Ent. DB (°C)	TGC	SHC	I/s	TGC	SHC	I/s	TGC	SHC	I/s
6210	24	30.4	24.9	1.64	34.0	19.2	1.81	38.0	13.5	1.97
	27	30.5	29.3	1.64	34.0	23.8	1.81	38.0	18.1	1.97
	29	31.5	31.5	1.70	34.0	27.6	1.81	37.9	21.9	1.97
	32	33.0	33.0	1.75	34.0	31.4	1.81	37.9	25.7	1.97
6630	24	30.8	25.7	1.67	34.4	19.7	1.83	38.4	13.7	2.00
	27	31.0	30.3	1.67	34.4	24.6	1.81	38.4	18.5	2.00
	29	32.3	32.3	1.72	34.4	28.6	1.81	38.4	22.5	2.00
	32	33.8	33.8	1.78	34.5	32.5	1.83	38.3	26.6	2.00
7140	24	31.1	26.5	1.67	34.8	20.2	1.83	38.8	13.8	2.00
	27	31.4	31.1	1.70	34.7	25.3	1.83	38.8	18.9	2.00
	29	32.9	32.9	1.75	34.7	29.6	1.83	38.8	23.2	2.00
	32	34.5	34.5	1.83	34.9	33.6	1.83	38.7	27.4	2.00
7650	24	31.4	27.3	1.70	35.1	20.6	1.86	39.1	13.9	2.03
	27	31.9	31.8	1.72	35.1	26.0	1.86	39.1	19.3	2.03
	29	33.5	33.5	1.78	35.0	30.5	1.86	39.1	23.8	2.03
	32	35.1	35.1	1.86	35.4	34.5	1.86	39.1	28.2	2.03

Notes:
TGC = Total Gross Capacity (kW)
SHC = Sensible Heat Capacity (kW)

Capacity Correction Factor Table

Delta T Water (°C)	I/s	Total Cap. kW	Sens. Cap. kW
2.5	2.21	1.01	1.01
4.0	1.39	1.01	1.01
5.5	1.00	1.00	1.00
7.0	0.79	0.99	1.00
8.5	0.66	0.99	1.00
10.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-9 — Gross Cooling Capacities SAVE-125

English

		ENT Water Temp (°F)																	
		75									85								
		Entering Wet Bulb Temperature (°F)																	
		61			67			73			61			67			73		
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM
4500	75	135.8	109.8	31.3	151.7	85.3	34.4	169.3	60.3	37.9	131.7	107.9	31.3	147.4	83.5	34.4	164.4	58.5	37.4
	80	136.1	129.4	31.7	151.6	105.3	34.4	169.1	80.3	37.9	132.3	127.2	31.3	147.3	103.4	34.4	164.3	78.4	37.4
	85	140.1	140.1	32.2	151.5	121.8	34.4	168.9	96.8	37.9	136.8	136.8	32.2	147.1	119.9	34.4	164.1	95.0	37.4
	90	146.6	146.6	33.5	151.6	138.1	34.4	168.7	113.2	37.9	143.2	143.2	33.5	147.5	136.1	34.4	164.0	111.5	37.4
4875	75	137.3	113.5	31.7	153.6	87.4	34.8	171.3	60.9	38.3	133.2	111.5	31.7	149.1	85.5	34.8	166.3	59.1	37.9
	80	138.2	133.7	31.7	153.5	108.6	34.8	171.0	82.0	38.3	134.3	131.4	31.7	149.3	107.0	34.8	166.1	80.2	37.9
	85	143.2	143.2	32.6	153.3	126.2	34.8	170.8	99.6	38.3	139.9	139.9	32.6	148.9	124.3	34.8	165.9	97.8	37.9
	90	149.9	149.9	33.9	153.7	143.2	34.8	170.7	117.0	38.3	146.5	146.5	33.9	149.4	141.0	34.8	165.9	115.3	37.9
5250	75	138.9	117.0	32.2	155.3	89.4	35.2	172.8	61.5	38.8	134.7	115.0	31.7	150.7	87.5	34.8	167.9	59.6	38.3
	80	140.3	137.7	32.2	155.1	111.7	35.2	172.7	83.8	38.8	136.4	134.9	32.2	150.5	109.8	34.8	167.7	82.0	38.3
	85	146.2	146.2	33.5	154.9	130.3	35.2	172.6	102.4	38.8	142.7	142.7	33.5	150.4	128.4	34.8	167.7	100.5	38.3
	90	153.1	153.1	34.8	155.7	147.9	35.2	172.4	120.8	38.3	149.5	149.5	34.8	151.4	145.6	35.2	167.5	119.0	38.3
5625	75	140.2	120.2	32.2	156.7	91.2	35.2	174.4	62.0	38.8	136.0	119.4	32.2	151.9	89.4	35.2	169.4	60.2	38.8
	80	140.7	140.0	32.6	156.5	114.9	35.2	174.2	85.5	38.8	138.5	138.0	32.6	151.9	113.0	35.2	169.2	83.7	38.8
	85	148.8	148.8	33.9	156.3	134.3	35.2	174.1	104.9	38.8	145.2	145.2	33.9	151.7	132.4	35.2	169.1	103.1	38.8
	90	155.9	155.9	35.2	157.6	152.1	35.7	174.0	124.3	38.8	152.1	152.1	35.2	153.4	149.7	35.7	168.9	122.4	38.8

Table PD-9 — Gross Cooling Capacities SAVE-125 (Cont.)

		ENT Water Temp (°F)								
		95								
		Entering Wet Bulb Temperature (°F)								
		61			67			73		
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM
4500	75	127.6	105.9	31.3	142.9	81.6	33.9	159.5	56.7	37.4
	80	128.4	124.8	31.3	142.7	101.4	33.9	159.4	76.7	37.4
	85	133.4	133.4	32.2	142.6	118.0	33.9	159.2	93.1	37.4
	90	139.7	139.7	33.5	143.0	134.0	34.4	159.1	109.5	37.4
4875	75	129.0	109.6	31.3	144.5	83.5	34.4	161.2	57.3	37.9
	80	132.6	128.7	31.7	144.4	104.7	34.4	161.0	78.4	37.9
	85	136.4	136.4	33.0	144.2	122.3	34.4	161.0	96.0	37.9
	90	142.9	142.9	34.4	145.0	138.7	34.8	160.8	113.4	37.9
5250	75	130.3	113.0	31.7	146.0	85.6	34.8	162.8	57.9	37.9
	80	132.6	132.0	32.2	145.8	107.9	34.8	162.5	80.1	37.9
	85	139.0	139.0	33.5	145.6	126.4	34.8	162.4	98.7	37.9
	90	145.8	145.8	34.8	147.0	143.1	34.8	162.2	117.0	37.9
5625	75	131.6	116.2	32.2	147.2	87.5	34.8	164.1	58.3	38.3
	80	134.7	134.6	32.6	147.1	111.0	34.8	163.9	81.8	38.3
	85	141.5	141.5	33.9	147.0	130.4	34.8	163.8	101.3	38.3
	90	148.4	148.4	35.2	161.5	147.0	35.2	163.7	120.6	38.3

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)

Capacity Correction Factor Table

Delta T Water (°F)	GPM	Total Cap. MBh	Sens. Cap. MBh
4.5	2.21	1.01	1.01
7.2	1.39	1.01	1.01
10.0	1.00	1.00	1.00
12.6	0.79	0.99	1.00
15.3	0.66	0.99	1.00
18.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-9 — Gross Cooling Capacities SAVE-125

Metric

		ENT Water Temp (°C)																	
		24.0					29.5												
		Entering Wet Bulb Temperature (°C)																	
		16.0			19.5			23.0			16.0			19.5			23.0		
m3/h	Ent. DB (°C)	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s
7650	24	39.8	32.2	1.97	44.5	25.0	2.17	49.6	17.7	2.39	38.6	31.6	1.97	43.2	24.5	2.17	48.2	17.1	2.36
	27	39.9	37.9	2.00	44.4	30.9	2.17	49.5	23.5	2.39	38.8	37.3	1.97	43.2	30.3	2.17	48.1	23.0	2.36
	29	41.0	41.0	2.03	44.4	35.7	2.17	49.5	28.4	2.39	40.1	40.1	2.03	43.1	35.1	2.17	48.1	27.8	2.36
	32	42.9	42.9	2.11	44.4	40.5	2.17	49.4	33.2	2.39	42.0	42.0	2.11	43.2	39.9	2.17	48.1	32.7	2.36
8285	24	40.2	33.3	2.00	45.0	25.6	2.20	50.2	17.8	2.42	39.0	32.7	2.00	43.7	25.0	2.20	48.7	17.3	2.39
	27	40.5	39.2	2.00	45.0	31.8	2.20	50.1	24.0	2.42	39.3	38.5	2.00	43.7	31.4	2.20	48.7	23.5	2.39
	29	42.0	42.0	2.06	44.9	37.0	2.20	50.1	29.2	2.42	41.0	41.0	2.06	43.6	36.4	2.20	48.6	28.6	2.39
	32	43.9	43.9	2.14	45.0	42.0	2.20	50.0	34.3	2.42	42.9	42.9	2.14	43.8	41.3	2.20	48.6	33.8	2.39
8920	24	40.7	34.3	2.03	45.5	26.2	2.22	50.6	18.0	2.45	39.5	33.7	2.00	44.1	25.6	2.20	49.2	17.5	2.42
	27	41.1	40.3	2.03	45.4	32.7	2.22	50.6	24.6	2.45	40.0	39.5	2.03	44.1	32.2	2.20	49.1	24.0	2.42
	29	42.8	42.8	2.11	45.4	38.2	2.22	50.6	30.0	2.45	41.8	41.8	2.11	44.1	37.6	2.20	49.1	29.4	2.42
	32	44.9	44.9	2.20	45.6	43.3	2.22	50.5	35.4	2.42	43.8	43.8	2.20	44.4	42.7	2.22	49.1	34.9	2.42
9560	24	41.1	35.2	2.03	45.9	26.7	2.22	51.1	18.2	2.45	39.8	35.0	2.03	44.5	26.2	2.22	49.6	17.6	2.45
	27	41.2	41.0	2.06	45.8	33.7	2.22	51.0	25.0	2.45	40.6	40.4	2.06	44.5	33.1	2.22	49.6	24.5	2.45
	29	43.6	43.6	2.14	45.8	39.3	2.22	51.0	30.7	2.45	42.5	42.5	2.14	44.5	38.8	2.22	49.5	30.2	2.45
	32	45.7	45.7	2.22	46.2	44.6	2.25	51.0	36.4	2.45	44.6	44.6	2.22	44.9	43.9	2.25	49.5	35.9	2.45

Table PD-9 — Gross Cooling Capacities SAVE-125 (Cont.)

		ENT Water Temp (°C)								
		35.0								
		Entering Wet Bulb Temperature (°C)								
		16.0			19.5			23.0		
m3/h	Ent. DB (°C)	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s
7650	24	37.4	31.0	1.97	41.9	23.9	2.14	46.7	16.6	2.36
	27	37.6	36.6	1.97	41.8	29.7	2.14	46.7	22.5	2.36
	29	39.1	39.1	2.03	41.8	34.6	2.14	46.6	27.3	2.36
	32	40.9	40.9	2.11	41.9	39.3	2.17	46.6	32.1	2.36
8285	24	37.8	32.1	1.97	42.3	24.5	2.17	47.2	16.8	2.39
	27	38.9	37.7	2.00	42.3	30.7	2.17	47.2	23.0	2.39
	29	40.0	40.0	2.08	42.2	35.8	2.17	47.2	28.1	2.39
	32	41.9	41.9	2.17	42.5	40.6	2.20	47.1	33.2	2.39
8920	24	38.2	33.1	2.00	42.8	25.1	2.20	47.7	17.0	2.39
	27	38.9	38.7	2.03	42.7	31.6	2.20	47.6	23.5	2.39
	29	40.7	40.7	2.11	42.7	37.0	2.20	47.6	28.9	2.39
	32	42.7	42.7	2.20	43.1	41.9	2.20	47.5	34.3	2.39
9560	24	38.5	34.1	2.03	43.1	25.6	2.20	48.1	17.1	2.42
	27	39.5	39.4	2.06	43.1	32.5	2.20	48.0	24.0	2.42
	29	41.5	41.5	2.14	43.1	38.2	2.20	48.0	29.7	2.42
	32	43.5	43.5	2.22	47.3	43.1	2.22	48.0	35.3	2.42

Notes:

TGC = Total Gross Capacity (kW)

SHC = Sensible Heat Capacity (kW)

Capacity Correction Factor Table

Delta T Water (°C)	l/s	Total Cap. kW	Sens. Cap. kW
2.5	2.21	1.01	1.01
4.0	1.39	1.01	1.01
5.5	1.00	1.00	1.00
7.0	0.79	0.99	1.00
8.5	0.66	0.99	1.00
10.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-10 — Gross Cooling Capacities SAVE-150

English

		ENT Water Temp (°F)																	
		75									85								
		Entering Wet Bulb Temperature (°F)																	
		61			67			73			61			67			73		
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM
5400	75	165.6	138.7	37.9	185.4	106.0	41.4	206.9	72.8	45.8	160.4	136.3	37.4	179.6	103.6	41.4	200.2	70.4	45.4
	80	167.7	163.2	38.3	185.2	132.7	41.4	206.6	99.4	45.8	163.0	160.0	37.9	179.3	130.3	41.4	200.0	97.1	45.4
	85	175.0	173.4	39.6	185.1	154.9	41.4	206.4	121.6	45.8	170.6	169.0	39.6	179.3	152.4	41.4	199.9	119.2	45.4
	90	183.4	181.7	41.0	186.5	175.6	41.9	206.3	143.5	45.8	178.8	177.1	41.0	181.0	172.6	41.4	199.7	141.2	45.4
5850	75	167.6	143.7	38.3	187.5	108.8	41.9	209.1	73.5	46.3	162.3	141.2	37.9	181.3	106.4	41.4	202.3	71.1	45.8
	80	170.7	168.2	38.8	187.3	137.3	41.9	208.8	101.9	46.3	166.0	164.3	38.8	181.2	135.1	41.4	202.1	99.5	45.8
	85	179.0	177.3	40.5	187.3	160.8	41.9	208.6	125.4	46.3	174.4	172.7	40.1	181.4	158.2	41.4	202.0	123.0	45.8
	90	187.6	185.8	41.9	189.4	182.0	42.3	208.5	148.8	46.3	182.9	181.2	41.9	183.9	178.8	42.3	201.8	146.4	45.8
6300	75	169.5	148.4	38.3	189.3	111.5	42.3	210.9	74.3	46.7	164.1	145.8	38.3	183.2	109.1	41.9	204.1	71.9	46.3
	80	173.8	172.1	39.2	189.2	141.6	42.3	210.8	104.3	46.7	169.2	167.5	39.2	183.0	139.2	41.9	203.9	101.9	45.8
	85	182.6	180.9	41.0	189.4	166.4	42.3	210.6	129.2	46.7	177.8	176.1	41.0	183.4	163.7	41.9	203.8	126.8	45.8
	90	191.4	189.6	42.7	192.3	187.6	42.7	210.5	154.0	46.7	186.5	184.7	42.7	186.8	184.0	42.7	203.7	151.6	45.8
6750	75	171.2	152.9	38.8	191.0	114.2	42.7	212.7	74.9	46.7	164.1	150.2	38.8	184.8	111.7	42.3	205.8	72.6	46.3
	80	176.8	175.1	40.1	190.8	145.9	42.7	212.5	106.6	46.7	172.1	170.5	39.6	184.6	143.4	42.3	205.6	104.2	46.3
	85	185.9	184.1	41.9	191.3	171.7	42.7	212.4	132.8	46.7	180.9	179.2	41.4	185.3	169.0	42.3	205.4	130.4	46.3
	90	194.9	193.0	43.6	195.1	192.5	43.6	212.2	158.9	46.7	189.8	188.0	43.2	189.7	187.9	43.2	205.3	156.5	46.3

Table PD-10 — Gross Cooling Capacities SAVE-150 (Cont.)

		ENT Water Temp (°F)								
		95								
		Entering Wet Bulb Temperature (°F)								
		61			67			73		
CFM	Ent. DB (°F)	TGC	SHC	GPM	TGC	SHC	GPM	TGC	SHC	GPM
5400	75	155.0	133.7	37.4	173.4	101.1	41.0	193.4	68.0	44.9
	80	158.0	156.2	37.9	173.3	127.8	41.0	193.2	94.6	44.9
	85	165.9	164.3	39.6	173.4	149.8	41.0	193.1	116.8	44.9
	90	174.0	172.3	41.0	175.4	169.5	41.4	192.9	138.7	44.9
5850	75	156.8	138.5	37.9	175.2	103.9	41.4	195.3	68.7	45.4
	80	161.3	159.7	38.8	175.0	132.3	41.4	195.2	97.1	45.4
	85	169.6	168.0	40.1	175.4	155.6	41.4	195.0	120.6	45.4
	90	177.9	176.2	41.9	178.3	175.0	41.9	194.9	144.0	45.4
6300	75	158.4	143.1	37.9	176.8	106.6	41.4	197.0	69.5	45.8
	80	164.3	162.8	39.2	176.7	136.7	41.4	196.9	99.4	45.8
	85	172.8	171.2	41.0	177.2	161.0	41.9	196.7	124.4	45.4
	90	181.3	179.6	42.3	181.3	179.5	42.3	196.6	149.1	45.4
6750	75	160.0	147.4	38.3	178.3	109.2	41.9	198.6	70.1	45.8
	80	167.2	165.6	39.6	178.1	140.9	41.9	198.3	101.7	45.8
	85	175.8	174.1	41.4	179.0	166.1	42.3	198.2	127.9	45.8
	90	184.5	182.7	43.2	184.5	182.7	43.2	198.0	154.0	45.8

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)

Capacity Correction Factor Table

Delta T Water (°F)	GPM	Total Cap. MBh	Sens. Cap. MBh
4.5	2.21	1.01	1.01
7.2	1.39	1.01	1.01
10.0	1.00	1.00	1.00
12.6	0.79	0.99	1.00
15.3	0.66	0.99	1.00
18.0	0.56	0.98	0.99



Performance Data

Water Cooled 60 Hz

Table PD-10 — Gross Cooling Capacities SAVE-150

Metric

		ENT Water Temp (°C)																																								
		24.0									29.5																															
		Entering Wet Bulb Temperature (°C)																																								
		16.0						19.5						23.0						16.0						19.5						23.0										
m3/h	Ent. DB (°C)	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s														
9180	24	48.5	40.6	2.39	54.3	31.1	2.61	60.6	21.3	2.89	47.0	39.9	2.36	52.6	30.3	2.61	58.7	20.6	2.86																							
	27	49.1	47.8	2.42	54.3	38.9	2.61	60.5	29.1	2.89	47.7	46.9	2.39	52.5	38.2	2.61	58.6	28.5	2.86																							
	29	51.3	50.8	2.50	54.2	45.4	2.61	60.5	35.6	2.89	50.0	49.5	2.50	52.5	44.6	2.61	58.6	34.9	2.86																							
	32	53.7	53.2	2.58	54.6	51.4	2.64	60.5	42.1	2.89	52.4	51.9	2.58	53.0	50.6	2.61	58.5	41.4	2.86																							
9945	24	49.1	42.1	2.42	54.9	31.9	2.64	61.3	21.5	2.92	47.6	41.4	2.39	53.2	31.2	2.61	59.3	20.8	2.89																							
	27	50.0	49.3	2.45	54.9	40.2	2.64	61.2	29.9	2.92	48.6	48.1	2.45	53.1	39.6	2.61	59.2	29.2	2.89																							
	29	52.5	52.0	2.56	54.9	47.1	2.64	61.1	36.7	2.92	51.1	50.6	2.53	53.2	46.3	2.61	59.2	36.0	2.89																							
	32	55.0	54.5	2.64	55.5	53.3	2.67	61.1	43.6	2.92	53.6	53.1	2.64	53.9	52.4	2.67	59.1	42.9	2.89																							
10710	24	49.7	43.5	2.42	55.5	32.7	2.67	61.8	21.8	2.95	48.1	42.7	2.42	53.7	32.0	2.64	59.8	21.1	2.92																							
	27	50.9	50.4	2.47	55.4	41.5	2.67	61.8	30.6	2.95	49.6	49.1	2.47	53.6	40.8	2.64	59.7	29.9	2.89																							
	29	53.5	53.0	2.58	55.5	48.8	2.67	61.7	37.8	2.95	52.1	51.6	2.58	53.7	48.0	2.64	59.7	37.1	2.89																							
	32	56.1	55.6	2.70	56.3	55.0	2.70	61.7	45.1	2.95	54.6	54.1	2.70	54.7	53.9	2.70	59.7	44.4	2.89																							
11475	24	50.1	44.8	2.45	56.0	33.5	2.70	62.3	21.9	2.95	48.1	44.0	2.45	54.1	32.7	2.67	60.3	21.3	2.92																							
	27	51.8	51.3	2.53	55.9	42.8	2.70	62.3	31.2	2.95	50.4	49.9	2.50	54.1	42.0	2.67	60.2	30.5	2.92																							
	29	54.5	53.9	2.64	56.1	50.3	2.70	62.2	38.9	2.95	53.0	52.5	2.61	54.3	49.5	2.67	60.2	38.2	2.92																							
	32	57.1	56.6	2.75	57.2	56.4	2.75	62.2	46.6	2.95	55.6	55.1	2.72	55.6	55.1	2.72	60.1	45.9	2.92																							

Table PD-10 — Gross Cooling Capacities SAVE-150 (Cont.)

		ENT Water Temp (°C)								
		35.0								
		Entering Wet Bulb Temperature (°C)								
		16.0			19.5			23.0		
m3/h	Ent. DB (°C)	TGC	SHC	l/s	TGC	SHC	l/s	TGC	SHC	l/s
9180	24	45.4	39.2	2.36	50.8	29.6	2.58	56.7	19.9	2.83
	27	46.3	45.8	2.39	50.8	37.5	2.58	56.6	27.7	2.83
	29	48.6	48.1	2.50	50.8	43.9	2.58	56.6	34.2	2.83
	32	51.0	50.5	2.58	51.4	49.7	2.61	56.5	40.6	2.83
9945	24	45.9	40.6	2.39	51.3	30.4	2.61	57.2	20.1	2.86
	27	47.3	46.8	2.45	51.3	38.8	2.61	57.2	28.5	2.86
	29	49.7	49.2	2.53	51.4	45.6	2.61	57.1	35.3	2.86
	32	52.1	51.6	2.64	52.2	51.3	2.64	57.1	42.2	2.86
10710	24	46.4	41.9	2.39	51.8	31.2	2.61	57.7	20.4	2.89
	27	48.1	47.7	2.47	51.8	40.0	2.61	57.7	29.1	2.89
	29	50.6	50.2	2.58	51.9	47.2	2.64	57.6	36.4	2.86
	32	53.1	52.6	2.67	53.1	52.6	2.67	57.6	43.7	2.86
11475	24	46.9	43.2	2.42	52.2	32.0	2.64	58.2	20.5	2.89
	27	49.0	48.5	2.50	52.2	41.3	2.64	58.1	29.8	2.89
	29	51.5	51.0	2.61	52.5	48.7	2.67	58.1	37.5	2.89
	32	54.1	53.5	2.72	54.1	53.5	2.72	58.0	45.1	2.89

Notes:
TGC = Total Gross Capacity (kW)
SHC = Sensible Heat Capacity (kW)

Capacity Correction Factor Table

Delta T Water (°C)	l/s	Total Cap. kW	Sens. Cap. kW
2.5	2.21	1.01	1.01
4.0	1.39	1.01	1.01
5.5	1.00	1.00	1.00
7.0	0.79	0.99	1.00
8.5	0.66	0.99	1.00
10.0	0.56	0.98	0.99



Performance Data

Air Cooled 60 Hz

Table PD-11 — Gross Cooling Capacities SRVE-050

English

		Ambient Temperature (°F)												
		85						95						
		Entering Wet Bulb Temperature (°F)												
		61		67		73		61		67		73		
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	
1800	75	53.7	44.2	60.2	34.1	67.1	23.9	52.2	43.5	58.4	33.4	65.1	23.1	
	80	54.1	52.0	60.1	42.4	67.0	32.1	52.6	51.2	58.4	41.7	65.1	31.4	
	90	56.0	56.0	60.1	49.2	67.0	38.9	54.6	54.6	58.3	48.4	65.0	38.2	
1950	75	54.4	45.7	61.0	35.0	67.8	24.1	52.8	44.9	59.0	34.2	64.6	23.4	
	80	54.9	53.7	60.8	43.8	67.7	32.9	53.4	52.8	59.0	42.9	65.7	32.1	
	90	57.2	57.2	60.8	51.0	67.7	40.1	55.9	55.9	58.9	50.2	65.7	39.3	
2100	75	55.0	47.2	61.5	35.8	68.5	24.3	53.3	46.4	59.7	35.1	66.5	23.6	
	80	55.8	55.3	61.5	45.1	68.4	33.5	54.3	54.2	59.6	44.3	66.4	32.8	
	90	58.4	58.4	61.4	52.7	68.4	41.1	57.0	57.0	59.6	51.9	66.3	40.4	
2250	75	61.2	61.2	61.9	59.7	68.3	48.8	59.7	59.7	60.2	58.7	66.3	48.0	
	80	55.5	48.5	62.0	36.6	69.1	24.5	53.8	47.8	60.2	35.8	67.0	23.7	
	90	56.6	56.6	62.0	46.3	69.0	34.2	55.2	55.2	60.1	45.6	66.9	33.5	
		85	59.5	59.5	62.0	54.4	68.9	42.3	58.0	58.0	60.1	53.5	66.9	41.6
		90	62.3	62.3	62.6	61.4	71.3	50.2	60.8	60.8	61.0	60.3	66.8	49.5

Table PD-11 — Gross Cooling Capacities SRVE-050 (Cont.)

English

		Ambient Temperature (°F)											
		105						115					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
1800	75	50.6	42.7	56.6	32.6	63.0	22.4	48.9	42.0	54.6	31.8	60.6	21.5
	80	51.1	50.2	56.5	40.8	63.0	30.5	49.5	49.2	54.5	40.1	60.6	29.8
	90	53.3	53.3	56.5	47.7	62.9	37.4	51.8	51.8	54.5	46.9	60.5	36.6
1950	75	55.8	55.8	56.7	54.1	62.9	44.1	54.3	54.3	54.9	53.0	60.5	43.2
	80	51.1	44.2	57.1	33.5	63.6	22.6	49.4	43.4	55.1	32.6	61.3	21.7
	90	51.9	51.7	57.1	42.2	63.6	31.3	50.5	50.5	55.1	41.3	61.2	30.4
2100	75	54.5	54.5	57.1	49.4	63.5	38.5	52.9	52.9	55.1	48.5	61.2	37.6
	80	57.0	57.0	57.6	56.0	63.5	45.7	55.4	55.4	55.8	54.8	61.1	44.8
	90	51.6	45.6	57.7	34.2	64.1	22.8	49.9	44.9	55.7	33.5	61.7	21.9
2250	75	52.9	52.9	57.7	43.5	64.1	32.0	51.4	51.4	55.5	42.7	61.7	31.2
	80	55.5	55.5	57.7	51.1	64.0	39.6	54.0	54.0	55.7	50.2	61.6	38.8
	90	58.2	58.2	58.4	57.6	64.0	47.3	56.5	56.5	56.5	56.3	61.6	46.3
	75	52.2	47.0	58.2	35.1	64.7	23.0	50.4	46.1	56.1	34.2	62.2	22.2
	80	53.7	53.7	58.1	44.7	64.7	32.6	52.3	52.3	56.1	43.9	62.1	31.8
	90	56.5	56.5	58.2	52.7	64.6	40.7	54.8	54.8	56.2	51.8	62.1	39.9
		90	59.1	59.1	59.3	59.0	64.6	48.7	57.5	57.5	57.5	62.0	47.8

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)



Performance Data

Air Cooled 60 Hz

Table PD-11 — Gross Cooling Capacities SRVE-050

		Ambient Temperature (°C)												Metric	
		29.5						35.0							
		Entering Wet Bulb Temperature (°C)													
		16.0		19.5		23.0		16.0		19.5		23.0			
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
4590	24	22.5	18.6	25.2	14.3	28.1	10.0	21.7	18.2	24.3	14.0	27.1	9.6		
	27	22.6	21.9	25.2	17.8	28.0	13.5	21.9	21.5	24.3	17.5	27.1	13.1		
	29	23.4	23.4	25.1	20.7	28.0	16.3	22.8	22.8	24.3	20.3	27.1	16.0		
	32	24.6	24.6	25.2	23.5	28.0	19.2	23.9	23.9	24.4	23.1	27.1	18.9		
4970	24	22.7	19.2	25.5	14.7	28.4	10.1	22.0	18.9	24.6	14.3	27.4	9.7		
	27	23.0	22.6	25.4	18.4	28.4	13.8	22.3	22.1	24.6	18.0	27.4	13.4		
	29	24.0	24.0	25.4	21.5	28.3	16.8	23.3	23.3	24.6	21.1	27.3	16.5		
	32	25.1	25.1	25.6	24.3	28.3	19.9	24.5	24.5	24.8	23.9	27.3	19.5		
5355	24	23.0	19.8	25.7	15.0	28.6	10.2	22.2	19.4	24.8	14.7	27.6	9.8		
	27	23.3	23.2	25.7	18.9	28.6	14.1	22.6	22.6	24.8	18.6	27.6	13.7		
	29	24.5	24.5	25.7	22.2	28.6	17.3	23.8	23.8	24.8	21.8	27.6	16.9		
	32	25.7	25.7	25.9	25.1	28.6	20.5	24.9	24.9	25.1	24.6	27.6	20.2		
5740	24	23.2	20.4	25.9	15.3	28.9	10.2	22.4	20.0	25.0	15.0	27.9	9.9		
	27	23.7	23.7	25.9	19.5	28.9	14.3	23.0	23.0	25.0	19.1	27.8	14.0		
	29	24.9	24.9	25.9	22.9	28.8	17.7	24.2	24.2	25.0	22.5	27.8	17.4		
	32	26.1	26.1	26.2	25.8	28.8	21.1	25.4	25.4	25.4	25.3	27.8	20.8		

Table PD-11 — Gross Cooling Capacities SRVE-050 (Cont.)

		Ambient Temperature (°C)												Metric	
		40.5						46							
		Entering Wet Bulb Temperature (°C)													
		16.0		19.5		23.0		16.0		19.5		23.0			
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
4590	24	20.9	17.9	23.4	13.6	26.1	9.3	20.1	17.5	22.5	13.2	25.1	8.9		
	27	21.2	21.0	23.4	17.1	26.1	12.8	20.5	20.4	22.5	16.7	25.1	12.4		
	29	22.2	22.2	23.4	20.0	26.1	15.6	21.5	21.5	22.5	19.6	25.0	15.2		
	32	23.3	23.3	23.6	22.7	26.1	18.5	22.5	22.5	22.7	22.2	25.0	18.1		
4970	24	21.2	18.5	23.7	14.0	26.4	9.4	20.3	18.1	22.7	13.6	25.3	9.0		
	27	21.6	21.6	23.7	17.7	26.3	13.0	20.9	20.9	22.7	17.3	25.3	12.7		
	29	22.6	22.6	23.7	20.7	26.3	16.1	21.9	21.9	22.7	20.3	25.3	15.7		
	32	23.8	23.8	23.9	23.4	26.3	19.2	23.0	23.0	23.0	22.9	25.3	18.8		
5355	24	21.4	19.1	23.9	14.3	26.6	9.4	20.5	18.7	23.0	13.9	25.5	9.1		
	27	22.0	22.0	23.9	18.2	26.6	13.4	21.2	21.2	22.9	17.8	25.5	13.0		
	29	23.1	23.1	23.9	21.4	26.6	16.6	22.3	22.3	23.0	21.0	25.5	16.2		
	32	24.2	24.2	24.3	24.1	26.5	19.8	23.4	23.4	23.4	23.4	25.5	19.4		
5740	24	21.6	19.6	24.1	14.6	26.8	9.5	20.7	19.2	23.1	14.2	25.7	9.2		
	27	22.3	22.3	24.1	18.7	26.8	13.6	21.6	21.6	23.1	18.3	25.7	13.3		
	29	23.5	23.5	24.1	22.1	26.8	17.0	22.7	22.7	23.2	21.6	25.7	16.6		
	32	24.6	24.6	24.6	24.6	26.7	20.4	23.8	23.8	23.8	23.8	25.7	20.0		

Notes:
 TGC = Total Gross Capacity (kW)
 SHC = Sensible Heat Capacity (kW)



Performance Data

Air Cooled 60 Hz

Table PD-12 — Gross Cooling Capacities SRVE-075

English

		Ambient Temperature (°F)											
		85						95					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
2700	75	76.6	63.5	85.9	48.9	95.8	34.0	74.1	62.2	83.0	47.7	92.5	32.9
	80	77.2	74.7	85.9	60.8	95.7	46.0	74.7	73.2	83.0	59.6	92.4	44.7
	85	80.0	80.0	85.8	70.7	95.6	55.8	77.9	77.9	82.9	69.4	92.3	54.6
2925	75	77.5	65.6	86.9	50.1	96.8	34.5	74.9	64.3	84.0	48.9	93.5	33.2
	80	78.4	77.1	86.8	62.8	96.8	47.0	76.0	75.5	83.8	61.5	93.4	45.8
	85	81.8	81.8	86.7	73.2	96.7	57.5	79.6	79.6	83.8	72.0	93.3	56.3
3150	75	78.3	67.6	87.8	51.3	97.7	34.7	75.7	66.4	84.8	50.0	94.3	33.5
	80	79.6	79.2	87.7	64.7	97.6	48.0	77.3	77.3	84.7	63.4	94.2	46.9
	85	83.5	83.5	87.7	75.7	97.5	59.0	81.2	81.2	84.7	74.4	94.1	57.8
3375	75	79.1	69.5	88.5	52.4	98.5	35.0	76.4	68.3	85.4	51.2	95.1	33.8
	80	80.9	80.9	88.5	66.5	98.5	49.0	78.7	78.7	85.3	65.2	95.0	47.8
	85	85.0	85.0	88.4	78.0	98.4	60.5	82.6	82.6	85.4	76.6	94.9	59.4
	90	89.0	89.0	89.5	88.0	98.3	72.1	86.6	86.6	86.8	86.2	94.9	70.9

Table PD-12 — Gross Cooling Capacities SRVE-075 (Cont.)

English

		Ambient Temperature (°F)											
		105						115					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
2700	75	71.3	61.0	80.0	46.4	89.1	31.7	68.5	59.7	76.9	45.2	85.6	30.4
	80	72.3	71.6	79.9	58.3	89.0	43.6	69.9	69.6	76.7	57.0	85.5	42.3
	85	75.7	75.7	79.8	68.2	88.9	53.3	73.4	73.4	76.7	66.9	85.4	52.0
2925	75	72.2	63.1	80.9	47.7	90.0	32.0	69.3	61.7	77.6	46.3	86.4	30.7
	80	73.7	73.6	80.8	60.3	89.9	44.5	71.2	71.2	77.5	58.9	86.3	43.2
	85	77.3	77.3	80.8	70.7	89.9	55.0	74.8	74.8	77.6	69.3	86.3	53.7
3150	75	72.9	65.1	81.6	48.8	90.8	32.2	70.0	63.7	78.3	47.5	87.1	31.0
	80	74.9	74.9	81.5	62.1	90.7	45.6	72.5	72.5	78.2	60.7	87.0	44.3
	85	78.8	78.8	81.5	73.0	90.6	56.6	76.2	76.2	78.3	71.7	87.0	55.3
3375	75	73.6	67.0	82.3	49.9	91.5	32.5	70.7	65.5	78.9	48.5	87.8	31.3
	80	76.2	76.2	82.2	63.9	91.4	46.5	73.7	73.7	78.9	62.5	87.7	45.3
	85	80.1	80.1	82.3	75.3	91.4	58.1	77.5	77.5	79.1	73.8	87.6	56.8
	90	84.1	84.1	84.0	84.0	91.3	69.6	81.3	81.3	81.3	81.3	87.6	68.3

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)



Performance Data

Air Cooled 60 Hz

Table PD-12 — Gross Cooling Capacities SRVE-075

Metric

		Ambient Temperature (°C)											
		29.5						35.0					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
4590	24	22.5	18.6	25.2	14.3	28.1	10.0	21.7	18.2	24.3	14.0	27.1	9.6
	27	22.6	21.9	25.2	17.8	28.0	13.5	21.9	21.5	24.3	17.5	27.1	13.1
	29	23.4	23.4	25.1	20.7	28.0	16.3	22.8	22.8	24.3	20.3	27.1	16.0
4970	24	22.7	19.2	25.5	14.7	28.4	10.1	22.0	18.9	24.6	14.3	27.4	9.7
	27	23.0	22.6	25.4	18.4	28.4	13.8	22.3	22.1	24.6	18.0	27.4	13.4
	29	24.0	24.0	25.4	21.5	28.3	16.8	23.3	23.3	24.6	21.1	27.3	16.5
5355	24	23.0	19.8	25.7	15.0	28.6	10.2	22.2	19.4	24.8	14.7	27.6	9.8
	27	23.3	23.2	25.7	18.9	28.6	14.1	22.6	22.6	24.8	18.6	27.6	13.7
	29	24.5	24.5	25.7	22.2	28.6	17.3	23.8	23.8	24.8	21.8	27.6	16.9
5740	24	23.2	20.4	25.9	15.3	28.9	10.2	22.4	20.0	25.0	15.0	27.9	9.9
	27	23.7	23.7	25.9	19.5	28.9	14.3	23.0	23.0	25.0	19.1	27.8	14.0
	29	24.9	24.9	25.9	22.9	28.8	17.7	24.2	24.2	25.0	22.5	27.8	17.4
	32	26.1	26.1	26.2	25.8	28.8	21.1	25.4	25.4	25.4	25.3	27.8	20.8

Table PD-12 — Gross Cooling Capacities SRVE-075 (Cont.)

Metric

		Ambient Temperature (°C)											
		40.5						46					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
4590	24	20.9	17.9	23.4	13.6	26.1	9.3	20.1	17.5	22.5	13.2	25.1	8.9
	27	21.2	21.0	23.4	17.1	26.1	12.8	20.5	20.4	22.5	16.7	25.1	12.4
	29	22.2	22.2	23.4	20.0	26.1	15.6	21.5	21.5	22.5	19.6	25.0	15.2
4970	24	21.2	18.5	23.7	14.0	26.4	9.4	20.3	18.1	22.7	13.6	25.3	9.0
	27	21.6	21.6	23.7	17.7	26.3	13.0	20.9	20.9	22.7	17.3	25.3	12.7
	29	22.6	22.6	23.7	20.7	26.3	16.1	21.9	21.9	22.7	20.3	25.3	15.7
5355	24	21.4	19.1	23.9	14.3	26.6	9.4	20.5	18.7	23.0	13.9	25.5	9.1
	27	22.0	22.0	23.9	18.2	26.6	13.4	21.2	21.2	22.9	17.8	25.5	13.0
	29	23.1	23.1	23.9	21.4	26.6	16.6	22.3	22.3	23.0	21.0	25.5	16.2
5740	24	21.6	19.6	24.1	14.6	26.8	9.5	20.7	19.2	23.1	14.2	25.7	9.2
	27	22.3	22.3	24.1	18.7	26.8	13.6	21.6	21.6	23.1	18.3	25.7	13.3
	29	23.5	23.5	24.1	22.1	26.8	17.0	22.7	22.7	23.2	21.6	25.7	16.6
	32	24.6	24.6	24.6	24.6	26.7	20.4	23.8	23.8	23.8	23.8	25.7	20.0

Notes:
TGC = Total Gross Capacity (kW)
SHC = Sensible Heat Capacity (kW)



Performance Data

Air Cooled 60 Hz

Table PD-13 — Gross Cooling Capacities SRVE-100

English

		Ambient Temperature (°F)											
		85						95					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
3600	75	107.1	86.8	120.1	66.3	134.0	45.5	103.8	85.1	116.3	64.6	129.7	43.8
	80	107.7	102.8	119.9	82.8	133.9	62.0	104.4	100.9	116.2	81.2	129.6	60.4
	85	111.1	111.1	119.9	96.6	133.7	75.6	108.3	108.3	116.1	94.9	129.5	74.1
3900	75	108.6	89.7	121.5	67.9	135.5	45.9	105.1	88.1	117.6	66.4	131.1	44.4
	80	109.3	106.4	121.4	85.6	135.4	63.4	106.1	104.3	117.5	85.5	131.0	61.9
	85	113.7	113.7	121.3	100.2	135.3	78.0	110.7	110.7	117.4	98.5	130.9	76.4
4200	75	109.8	92.5	122.7	69.5	136.8	46.3	106.2	90.9	118.8	68.0	132.3	44.7
	80	110.9	109.4	122.6	88.2	136.7	64.9	107.8	107.1	118.7	86.5	132.2	63.3
	85	116.0	116.0	122.5	103.6	136.6	80.2	113.0	113.0	118.6	101.9	132.1	79.1
4500	75	110.7	95.4	123.8	71.2	138.0	46.8	107.1	93.6	119.9	69.5	133.4	45.1
	80	112.6	112.2	123.7	90.7	137.8	66.3	109.4	109.4	119.8	89.1	133.3	64.6
	85	118.0	118.0	123.7	106.9	137.7	82.4	115.0	115.0	119.7	105.2	133.2	80.8
	90	123.8	123.8	124.8	121.4	137.6	98.4	120.7	120.7	121.2	119.4	133.1	96.9

Table PD-13 — Gross Cooling Capacities SRVE-100 (Cont.)

English

		Ambient Temperature (°F)											
		105						115					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
3600	75	100.4	83.5	112.4	63.0	125.2	42.2	96.9	81.9	108.2	61.3	120.2	40.4
	80	101.2	99.0	112.3	79.6	125.1	58.8	97.9	96.8	108.1	77.8	120.1	57.0
	85	105.4	105.4	112.2	93.3	125.0	72.5	102.4	102.4	108.0	91.6	120.0	70.6
3900	75	101.6	86.4	113.6	64.6	126.4	42.6	97.9	84.8	109.3	62.9	121.4	40.9
	80	102.9	102.0	113.5	82.3	126.3	60.2	99.6	99.5	109.2	80.6	121.3	58.4
	85	107.8	107.8	113.5	96.9	126.2	74.8	104.5	104.5	109.2	95.0	121.2	72.9
4200	75	102.6	89.3	114.7	66.3	127.6	43.1	98.9	87.5	110.3	64.5	122.4	41.2
	80	104.6	104.5	114.6	84.9	127.5	61.6	101.5	101.5	110.2	83.1	122.3	59.7
	85	109.9	109.9	114.6	100.3	127.4	77.0	106.5	106.5	110.2	98.4	122.2	75.1
4500	75	115.2	115.2	115.9	113.7	127.3	92.2	111.6	111.6	111.8	111.1	122.1	90.4
	80	103.6	92.0	115.6	67.8	128.6	43.5	99.8	90.3	111.2	66.1	123.3	41.6
	85	106.4	106.4	115.5	87.4	128.5	62.9	103.1	103.1	111.1	85.6	123.2	61.0
	85	111.8	111.8	115.6	103.4	128.4	79.1	108.3	108.3	111.2	101.6	123.1	77.3
	90	117.3	117.3	117.4	116.6	128.3	95.2	113.6	113.6	113.5	113.5	123.0	93.3

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)



Performance Data

Air Cooled 60 Hz

Table PD-13 — Gross Cooling Capacities SRVE-100

Metric

		Ambient Temperature (°C)											
		29.5						35.0					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
6120	24	31.4	25.4	35.2	19.4	39.3	13.3	30.4	24.9	34.1	18.9	38.0	12.8
	27	31.6	30.1	35.1	24.3	39.2	18.2	30.6	29.6	34.0	23.8	38.0	17.7
	29	32.5	32.5	35.1	28.3	39.2	22.2	31.7	31.7	34.0	27.8	37.9	21.7
	32	34.1	34.1	35.2	32.3	39.2	26.2	33.2	33.2	34.1	31.7	37.9	25.7
6630	24	31.8	26.3	35.6	19.9	39.7	13.4	30.8	25.8	34.5	19.4	38.4	13.0
	27	32.0	31.2	35.6	25.1	39.7	18.6	31.1	30.6	34.4	25.1	38.4	18.1
	29	33.3	33.3	35.5	29.4	39.6	22.9	32.4	32.4	34.4	28.9	38.4	22.4
	32	34.9	34.9	35.6	33.4	39.6	27.1	34.0	34.0	34.6	32.9	38.3	26.6
7140	24	32.2	27.1	36.0	20.4	40.1	13.6	31.1	26.6	34.8	19.9	38.8	13.1
	27	32.5	32.1	35.9	25.8	40.0	19.0	31.6	31.4	34.8	25.4	38.7	18.6
	29	34.0	34.0	35.9	30.3	40.0	23.5	33.1	33.1	34.7	29.9	38.7	23.2
	32	35.6	35.6	36.1	34.6	40.0	28.0	34.7	34.7	35.0	34.0	38.7	27.5
7650	24	32.4	27.9	36.3	20.9	40.4	13.7	31.4	27.4	35.1	20.4	39.1	13.2
	27	33.0	32.9	36.2	26.6	40.4	19.4	32.1	32.1	35.1	26.1	39.1	18.9
	29	34.6	34.6	36.2	31.3	40.3	24.1	33.7	33.7	35.1	30.8	39.0	23.7
	32	36.3	36.3	36.6	35.6	40.3	28.8	35.4	35.4	35.5	35.0	39.0	28.4

Table PD-13 — Gross Cooling Capacities SRVE-100 (Cont.)

Metric

		Ambient Temperature (°C)											
		40.5						46					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
6120	24	29.4	24.5	32.9	18.5	36.7	12.4	28.4	24.0	31.7	17.9	35.2	11.8
	27	29.6	29.0	32.9	23.3	36.7	17.2	28.7	28.4	31.7	22.8	35.2	16.7
	29	30.9	30.9	32.9	27.3	36.6	21.2	30.0	30.0	31.6	26.8	35.2	20.7
	32	32.4	32.4	33.0	31.2	36.6	25.2	31.4	31.4	31.8	30.6	35.1	24.7
6630	24	29.8	25.3	33.3	18.9	37.0	12.5	28.7	24.8	32.0	18.4	35.6	12.0
	27	30.1	29.9	33.2	24.1	37.0	17.6	29.2	29.2	32.0	23.6	35.5	17.1
	29	31.6	31.6	33.2	28.4	37.0	21.9	30.6	30.6	32.0	27.8	35.5	21.4
	32	33.1	33.1	33.5	32.3	37.0	26.2	32.1	32.1	32.3	31.6	35.5	25.6
7140	24	30.1	26.2	33.6	19.4	37.4	12.6	29.0	25.6	32.3	18.9	35.9	12.1
	27	30.7	30.6	33.6	24.9	37.4	18.0	29.7	29.7	32.3	24.3	35.8	17.5
	29	32.2	32.2	33.6	29.4	37.3	22.5	31.2	31.2	32.3	28.8	35.8	22.0
	32	33.8	33.8	33.9	33.3	37.3	27.0	32.7	32.7	32.8	32.5	35.8	26.5
7650	24	30.3	27.0	33.9	19.9	37.7	12.7	29.3	26.4	32.6	19.4	36.1	12.2
	27	31.2	31.2	33.9	25.6	37.7	18.4	30.2	30.2	32.5	25.1	36.1	17.9
	29	32.8	32.8	33.9	30.3	37.6	23.2	31.7	31.7	32.6	29.8	36.1	22.6
	32	34.4	34.4	34.4	34.2	37.6	27.9	33.3	33.3	33.2	33.2	36.0	27.3

Notes:
TGC = Total Gross Capacity (kW)
SHC = Sensible Heat Capacity (kW)



Performance Data

Air Cooled 60 Hz

Table PD-14 — Gross Cooling Capacities SRVE-125

English

		Ambient Temperature (°F)											
		85						95					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
4500	75	131.7	108.3	147.0	83.5	163.7	58.2	127.4	110.5	142.3	81.5	158.2	56.2
	80	132.4	127.7	146.9	103.7	163.5	78.2	128.3	125.2	142.1	101.5	158.0	76.4
	85	137.0	137.0	146.8	120.4	163.2	95.0	133.5	133.5	141.9	118.4	157.9	93.1
	90	143.3	143.3	147.1	136.5	163.1	111.6	139.6	139.6	142.5	134.2	157.7	109.6
4875	75	133.3	112.0	148.8	85.5	165.3	58.7	128.9	109.9	143.7	83.4	159.7	56.7
	80	134.5	131.9	148.6	107.0	165.1	80.1	130.4	129.1	143.6	104.8	159.6	78.1
	85	140.0	140.0	148.5	124.7	165.0	97.7	136.3	136.3	143.5	122.6	159.5	95.7
	90	146.6	146.6	149.1	141.5	164.9	115.4	142.7	142.7	144.5	139.1	159.4	113.4
5250	75	134.7	115.5	150.2	87.6	166.8	59.3	130.2	113.3	145.2	85.5	161.2	57.2
	80	136.5	135.4	150.1	110.0	166.7	81.8	132.6	132.2	145.0	108.0	161.0	79.7
	85	142.8	142.8	149.9	128.8	166.5	100.5	138.9	138.9	145.0	126.8	160.9	98.5
	90	149.5	149.5	151.1	146.0	166.4	119.1	145.4	145.4	146.4	143.2	160.8	117.1
5625	75	135.9	118.8	151.6	89.5	168.2	59.8	131.3	116.7	146.4	87.3	162.5	57.8
	80	138.5	138.3	151.4	113.2	168.0	83.5	134.6	134.6	146.2	111.2	162.3	81.5
	85	145.2	145.2	151.4	132.8	167.9	103.1	141.2	141.2	146.3	130.7	162.2	101.1
	90	152.1	152.1	153.0	150.0	167.8	123.1	148.0	148.0	148.4	147.0	162.1	120.6

Table PD-14 — Gross Cooling Capacities SRVE-125 (Cont.)

English

		Ambient Temperature (°F)											
		105						115					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
4500	75	122.9	104.3	137.3	79.3	152.5	54.2	118.3	102.1	131.9	77.3	146.5	52.0
	80	124.2	122.4	137.1	99.5	152.3	74.3	120.0	119.4	131.8	97.3	146.4	72.1
	85	129.6	129.6	137.0	116.2	152.2	90.8	125.6	125.6	131.7	114.1	146.2	88.8
	90	135.7	135.7	137.7	131.8	152.1	107.5	131.5	131.5	132.8	129.0	146.2	105.4
4875	75	124.2	107.8	138.5	81.4	154.0	54.7	119.6	105.6	133.1	79.2	147.9	52.6
	80	126.2	125.8	138.5	102.8	153.8	76.1	122.2	122.1	133.1	100.6	147.7	73.9
	85	132.3	132.3	138.3	120.4	153.7	93.7	128.2	128.2	133.1	118.2	147.7	91.6
	90	138.5	138.5	139.7	136.6	153.6	111.3	134.3	134.3	134.7	133.1	147.4	109.2
5250	75	125.5	111.2	139.8	83.3	155.3	55.2	120.6	108.9	134.4	81.2	149.0	53.0
	80	128.5	128.4	139.8	106.0	155.1	77.7	124.3	124.3	134.3	103.8	148.9	75.6
	85	134.8	134.8	139.8	124.6	155.0	96.5	130.5	130.5	134.4	122.2	148.7	94.2
	90	141.2	141.2	141.7	140.2	155.0	114.9	136.8	136.8	136.8	136.3	148.7	112.8
5625	75	126.6	114.5	141.0	85.2	156.5	55.7	121.7	112.0	135.4	83.0	150.1	53.5
	80	130.6	130.6	140.9	109.0	156.2	79.3	126.5	126.5	135.4	106.7	150.0	77.2
	85	137.1	137.1	141.0	128.4	156.2	98.9	132.7	132.7	135.6	125.9	149.9	96.8
	90	143.6	143.6	143.7	143.2	156.0	118.5	139.1	139.1	139.1	139.0	149.7	116.3

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)



Performance Data

Air Cooled 60 Hz

Table PD-14 — Gross Cooling Capacities SRVE-125

Metric

		Ambient Temperature (°C)											
		29.5						35.0					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
7650	24	38.6	31.7	43.1	24.5	48.0	17.1	37.3	32.4	41.7	23.9	46.3	16.5
	27	38.8	37.4	43.0	30.4	47.9	22.9	37.6	36.7	41.6	29.8	46.3	22.4
	29	40.1	40.1	43.0	35.3	47.8	27.8	39.1	39.1	41.6	34.7	46.3	27.3
	32	42.0	42.0	43.1	40.0	47.8	32.7	40.9	40.9	41.7	39.3	46.2	32.1
8285	24	39.1	32.8	43.6	25.1	48.4	17.2	37.8	32.2	42.1	24.4	46.8	16.6
	27	39.4	38.6	43.5	31.3	48.4	23.5	38.2	37.8	42.1	30.7	46.8	22.9
	29	41.0	41.0	43.5	36.5	48.4	28.6	39.9	39.9	42.1	35.9	46.7	28.0
	32	43.0	43.0	43.7	41.5	48.3	33.8	41.8	41.8	42.3	40.7	46.7	33.2
8920	24	39.5	33.9	44.0	25.7	48.9	17.4	38.1	33.2	42.5	25.1	47.2	16.8
	27	40.0	39.7	44.0	32.2	48.9	24.0	38.9	38.7	42.5	31.6	47.2	23.4
	29	41.8	41.8	43.9	37.7	48.8	29.4	40.7	40.7	42.5	37.1	47.1	28.9
	32	43.8	43.8	44.3	42.8	48.8	34.9	42.6	42.6	42.9	42.0	47.1	34.3
9560	24	39.8	34.8	44.4	26.2	49.3	17.5	38.5	34.2	42.9	25.6	47.6	16.9
	27	40.6	40.5	44.4	33.2	49.2	24.5	39.4	39.4	42.8	32.6	47.5	23.9
	29	42.5	42.5	44.4	38.9	49.2	30.2	41.4	41.4	42.9	38.3	47.5	29.6
	32	44.6	44.6	44.8	43.9	49.2	36.1	43.4	43.4	43.5	43.1	47.5	35.3

Table PD-14 — Gross Cooling Capacities SRVE-125 (Cont.)

Metric

		Ambient Temperature (°C)											
		40.5						46					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
7650	24	36.0	30.6	40.2	23.2	44.7	15.9	34.7	29.9	38.6	22.6	42.9	15.2
	27	36.4	35.9	40.2	29.2	44.6	21.8	35.2	35.0	38.6	28.5	42.9	21.1
	29	38.0	38.0	40.1	34.0	44.6	26.6	36.8	36.8	38.6	33.4	42.8	26.0
	32	39.8	39.8	40.3	38.6	44.6	31.5	38.5	38.5	38.9	37.8	42.8	30.9
8285	24	36.4	31.6	40.6	23.9	45.1	16.0	35.0	30.9	39.0	23.2	43.3	15.4
	27	37.0	36.9	40.6	30.1	45.1	22.3	35.8	35.8	39.0	29.5	43.3	21.6
	29	38.8	38.8	40.5	35.3	45.0	27.5	37.5	37.5	39.0	34.6	43.3	26.8
	32	40.6	40.6	40.9	40.0	45.0	32.6	39.3	39.3	39.5	39.0	43.2	32.0
8920	24	36.8	32.6	41.0	24.4	45.5	16.2	35.3	31.9	39.4	23.8	43.7	15.5
	27	37.6	37.6	41.0	31.1	45.4	22.8	36.4	36.4	39.3	30.4	43.6	22.1
	29	39.5	39.5	41.0	36.5	45.4	28.3	38.2	38.2	39.4	35.8	43.6	27.6
	32	41.4	41.4	41.5	41.1	45.4	33.7	40.1	40.1	40.1	39.9	43.6	33.0
9560	24	37.1	33.5	41.3	25.0	45.8	16.3	35.7	32.8	39.7	24.3	44.0	15.7
	27	38.3	38.3	41.3	31.9	45.8	23.2	37.1	37.1	39.7	31.3	43.9	22.6
	29	40.2	40.2	41.3	37.6	45.8	29.0	38.9	38.9	39.7	36.9	43.9	28.4
	32	42.1	42.1	42.1	42.0	45.7	34.7	40.7	40.7	40.7	40.7	43.9	34.1

Notes:
TGC = Total Gross Capacity (kW)
SHC = Sensible Heat Capacity (kW)



Performance Data

Air Cooled 60 Hz

Table PD-15 — Gross Cooling Capacities SRVE-150

English

		Ambient Temperature (°F)											
		85						95					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
5400	75	161.0	135.9	179.6	102.9	199.5	69.6	155.3	133.2	173.1	100.3	192.3	67.0
	80	163.6	159.3	179.5	129.6	199.4	96.2	158.5	155.3	172.9	127.0	192.1	93.6
	85	171.2	168.0	179.5	151.7	199.2	118.2	166.2	163.1	173.1	149.0	191.9	115.8
5850	75	162.9	140.7	181.5	105.7	201.5	70.2	157.1	138.0	174.8	103.1	194.1	67.7
	80	166.6	163.5	181.3	134.2	201.3	98.6	161.7	158.6	174.7	131.5	194.0	96.0
	85	174.9	171.6	181.5	157.5	201.2	122.1	169.7	166.5	175.0	154.6	193.8	119.5
6300	75	164.6	145.3	183.2	108.4	203.2	70.9	158.7	142.5	176.4	105.8	195.7	68.3
	80	169.8	166.6	183.0	138.4	203.1	100.9	164.6	161.5	176.2	135.8	195.6	98.4
	85	178.2	174.8	183.4	163.0	202.9	125.8	172.9	169.6	176.9	160.1	195.4	123.2
6750	75	166.2	149.7	184.5	111.0	204.8	71.6	160.3	146.7	177.8	108.4	197.1	69.0
	80	172.6	169.3	184.4	142.7	204.6	103.2	167.3	164.1	177.6	140.1	196.9	100.6
	85	181.3	177.8	185.2	168.1	204.5	129.4	175.7	172.4	178.6	165.0	196.7	126.9
	90	190.0	186.4	189.8	186.3	204.3	155.6	184.2	180.8	184.1	180.6	196.6	153.0

Table PD-15 — Gross Cooling Capacities SRVE-150 (Cont.)

English

		Ambient Temperature (°F)											
		105						115					
		Entering Wet Bulb Temperature (°F)											
		61		67		73		61		67		73	
CFM	Ent. DB (°F)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
5400	75	149.2	130.4	166.3	97.7	184.8	64.4	143.1	127.4	159.3	94.8	177.0	61.8
	80	153.4	150.5	166.2	124.3	184.5	91.0	148.0	145.2	159.2	121.6	176.8	88.4
	85	161.0	158.0	166.4	146.1	184.4	113.0	155.5	152.6	159.6	143.1	176.7	110.4
5850	75	150.9	135.1	167.9	100.4	186.5	65.1	144.7	132.0	161.3	97.7	178.5	62.4
	80	156.5	153.5	167.8	128.8	186.2	93.4	150.9	148.1	160.7	126.0	178.4	90.8
	85	164.3	161.2	168.3	151.6	186.1	116.9	158.6	155.6	161.5	148.5	178.2	114.2
6300	75	152.5	139.5	169.4	103.1	187.9	65.7	146.3	136.1	162.1	100.3	179.9	63.1
	80	159.2	156.2	169.2	133.1	187.7	95.8	153.6	150.7	162.0	130.3	179.7	93.1
	85	167.3	164.1	170.1	156.8	187.6	120.6	161.4	158.4	163.2	153.4	179.6	117.9
6750	75	154.0	143.5	170.7	105.7	189.2	66.4	147.7	140.0	163.2	102.9	181.0	63.8
	80	161.8	158.7	170.4	137.3	189.0	98.0	155.9	153.0	163.1	134.5	180.8	95.3
	85	170.0	166.8	171.8	161.6	188.9	124.2	164.0	160.9	164.9	157.9	180.7	121.5
	90	178.3	174.9	178.2	174.8	188.8	150.3	172.0	168.8	172.0	168.8	180.7	147.5

Notes:
TGC = Total Gross Capacity (MBh)
SHC = Sensible Heat Capacity (MBh)



Performance Data

Air Cooled 60 Hz

Table PD-15 — Gross Cooling Capacities SRVE-150

Metric

		Ambient Temperature (°C)											
		29.5						35.0					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
9180	24	47.2	39.8	52.6	30.1	58.5	20.4	45.5	39.0	50.7	29.4	56.3	19.6
	27	47.9	46.7	52.6	38.0	58.4	28.2	46.4	45.5	50.7	37.2	56.3	27.4
	29	50.2	49.2	52.6	44.5	58.4	34.6	48.7	47.8	50.7	43.7	56.2	33.9
9945	24	47.7	41.2	53.2	31.0	59.0	20.6	46.0	40.4	51.2	30.2	56.9	19.8
	27	48.8	47.9	53.1	39.3	59.0	28.9	47.4	46.5	51.2	38.5	56.8	28.1
	29	51.2	50.3	53.2	46.1	58.9	35.8	49.7	48.8	51.3	45.3	56.8	35.0
10710	24	48.2	42.6	53.7	31.8	59.5	20.8	46.5	41.7	51.7	31.0	57.3	20.0
	27	49.8	48.8	53.6	40.6	59.5	29.6	48.2	47.3	51.6	39.8	57.3	28.8
	29	52.2	51.2	53.7	47.7	59.4	36.9	50.7	49.7	51.8	46.9	57.2	36.1
11475	24	48.7	43.8	54.1	32.5	60.0	21.0	47.0	43.0	52.1	31.8	57.7	20.2
	27	50.6	49.6	54.0	41.8	59.9	30.2	49.0	48.1	52.0	41.0	57.7	29.5
	29	53.1	52.1	54.3	49.2	59.9	37.9	51.5	50.5	52.3	48.4	57.6	37.2
	32	55.7	54.6	55.6	54.6	59.8	45.6	54.0	53.0	53.9	52.9	57.6	44.8

Table PD-15 — Gross Cooling Capacities SRVE-150 (Cont.)

Metric

		Ambient Temperature (°C)											
		40.5						46					
		Entering Wet Bulb Temperature (°C)											
		16.0		19.5		23.0		16.0		19.5		23.0	
m3/h	Ent. DB (°C)	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
9180	24	43.7	38.2	48.7	28.6	54.1	18.9	41.9	37.3	46.7	27.8	51.9	18.1
	27	44.9	44.1	48.7	36.4	54.1	26.7	43.4	42.5	46.6	35.6	51.8	25.9
	29	47.2	46.3	48.8	42.8	54.0	33.1	45.6	44.7	46.8	41.9	51.8	32.4
9945	24	44.2	39.6	49.2	29.4	54.6	19.1	42.4	38.7	47.3	28.6	52.3	18.3
	27	45.8	45.0	49.2	37.7	54.6	27.4	44.2	43.4	47.1	36.9	52.3	26.6
	29	48.1	47.2	49.3	44.4	54.5	34.3	46.5	45.6	47.3	43.5	52.2	33.5
10710	24	44.7	40.9	49.6	30.2	55.1	19.3	42.9	39.9	47.5	29.4	52.7	18.5
	27	46.6	45.8	49.6	39.0	55.0	28.1	45.0	44.2	47.5	38.2	52.6	27.3
	29	49.0	48.1	49.8	46.0	55.0	35.3	47.3	46.4	47.8	44.9	52.6	34.6
11475	24	45.1	42.1	50.0	31.0	55.4	19.4	43.3	41.0	47.8	30.1	53.0	18.7
	27	47.4	46.5	49.9	40.2	55.4	28.7	45.7	44.8	47.8	39.4	53.0	27.9
	29	49.8	48.9	50.3	47.4	55.3	36.4	48.0	47.1	48.3	46.3	53.0	35.6
	32	52.2	51.3	52.2	51.2	55.3	44.0	50.4	49.5	50.4	49.5	53.0	43.2

Notes:
TGC = Total Gross Capacity (kW)
SHC = Sensible Heat Capacity (kW)

Controls

The *Genius* line offers two Control options: Standard Thermostat or Microprocessor Control.

Standard Thermostat

All units are supplied with a control thermostat as standard feature. This thermostat can be installed remotely or in the equipment, according to the needs of the client.

Microprocessor Control

The Microprocessor Control UCP (unit control processor) is factory assembled and tested. It controls unit operation in the independent mode (standalone) or it allows communication when the unit is working in an integrated comfort system (Tracer, Tracer Summit, Tracker).

Some of the main advantages and benefits of using the microprocessor are:

Great reliability: As we know, this type of control has demonstrated itself to be highly reliable, thus avoiding decalibration or breakdown.

Direct digital control: The Integral Proportional Control allows more precise temperature control of the area to be air-conditioned. In addition, the temperature sensing instrument is more sensitive than the one used in traditional cases. With this instrument joined to the UCP it is possible to guarantee a setpoint temperature of $\pm 0.5F$.

Easy diagnosis: The controller allows the operator to carry out easy and fast test to verify the operation of the unit components (fans and compressors).

Low suction pressure during start-up: The controller ignores the low pressure information during compressor start-up, thus avoiding that the unit not start because of the low pressure. If after 3 minutes the low pressure is not within the correct range, the unit will deactivate.

Elimination of Compressor cycling: The controller allows the compressor to run for a minimum of three minutes, followed by three minutes not running (off) to make sure that there is adequate oil return to the compressor(s).

Alternation of Compressor operation: The microprocessor will alternate the compressors according to the number of start-ups and hours of operation of each,

so that the degree of wear will be similar for each one.

The microprocessor control provides the option for simple and direct communication between the *Genius* and *TRACKER*, *Tracer* or *Tracer Summit* building administrators. This communication is achieved simply by interconnecting the *Genius* unit and the building administration system with a twisted pair cable.

TRACKER

In addition to being able to control the lighting of your house or building, this panel can automatically control up to 12 *Genius*. It also allows sending air conditioning system alarms to a Maintenance Central 24 hours a day, thus making possible various functions:

Schedule programming: On the *TRACKER* you do the annual operating programming of each one of the interconnected sets of equipment with the possibility of setting two different schedules for the initiation and termination of operation for weekdays, weekends and holidays. The objective is to use the equipment only when necessary. There is no need for you to waste energy.

Interface with the operator: The *TRACKER* has a functional keyboard and liquid crystal display that provides the user with a rapid visualization of the system with a minimum of experience. Access is restricted with a safety password.

Zoning: When a variable air volume system is controlled, it is capable of independently controlling the temperature of up to 128 different zones, thus optimizing the dimensions of your equipment as well as your investment.

Optimized start-up: The *TRACKER* analyzes the most economical way to turn on the equipment so that you get the desired temperature at the programmed time. This is applicable in setups where various *Genius* units are interconnected to the control system and, instead of turning on all of them at the same time, they are turned on at different times to avoid peaks in energy consumption.

Demand limit: Automatically controls the programmed electricity consumption limits of the setup. This is an important economic factor that makes the cost of the *TRACKER* insignificant when considered on an annual scale.

Record of tendencies: Records up to 192 temperature values during a time frame that you determine. This function makes it possible to do a posterior analysis of the system's performance.

Record of alarms: The *TRACKER* immediately identifies any breakdowns in the system, which register as alarms. Besides this, the *TRACKER* store in its memory up to 32 alarms with information including the date and time of the event.

Access via telephone line: The *TRACKER* can be programmed and supervised through the telephone line. It can also, in the same way, send warnings concerning any alarms.

Easy installation: The *Genius* and the *TRACKER* leave the factory already programmed and tested. Installation and connection between them is done with a twisted pair.

For more details, consult the *TRACKER* Engineering Bulletin.

TRACER SUMMIT

This is the controller recommended for very large installations. The *Genius*'s microprocessor is also able to communicate with the Tracer Summit which provides complete integration of these units with the Integrated Comfort System.

Varitrac is the name Trane has given to our variable air volume system for small installations. Airflow through the *Genius* is constant while the air supply to each zone is variable. So that this will happen, a bypass gate returns airflow that was not required by the zones to the system. The variable air input in each zone is controlled by a VAV box that includes a microprocessor controller. This controller regulates the amount of air needed to maintain the desired temperature. A panel called the Central Control Panel (CCP) is used to program, supervise and control the Varitrac system. Trane personnel can program the *TRACKER* and the CCP.

Electrical Data

Each unit model has three options for electric heat.

The following table shows the options and their capacities in kW.

Model	5 Ton	7.5 Ton	10 Ton	12.5 Ton	15 Ton
Option 1	2 kW	3 kW	4 kW	5 kW	6 kW
Option 2	4 kW	6 kW	8 kW	2x5 kW	2x6 kW
Option 3	6 kW	9 kW	2x6 kW	2x8 kW	2x9 kW

Table ED-1 — Genius – Electrical Features - SRVE/SIVE 050

Nominal Operation Values		Compressor		Fan Motor		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V		15.40		3.04		3.04		21.48
and	380V	4.74	8.92	0.83	1.76	0.83	1.76	6.40	12.44
Option 1	440V		7.70		1.52		1.52		10.74
	220V		15.40		4.14		3.04		22.58
Option 2	380V	4.74	8.92	1.22	2.39	0.83	1.76	6.79	13.07
	440V		7.70		2.07		1.52		11.29
Plenum Box	220V		15.40		1.80		3.04		20.24
Option	380V	4.74	8.92	0.45	1.04	0.83	1.76	6.02	11.72
	440V		7.70		0.90		1.52		10.12

Maximum Operation Values		Compressor		Fan Motor		Fan Motor		Current
Fan	Voltage	CMO	CMO	CMO	CMO	CMO	CMO	A
STD	220V	19.90	19.90	3.80	3.80	3.80	3.80	27.50
and	380V	11.52	11.52	2.19	2.19	2.19	2.19	15.90
Option 1	440V	9.95	9.95	1.90	1.90	1.90	1.90	13.75
	220V	19.90	19.90	5.18	3.80	3.80	3.80	28.88
Option 2	380V	11.52	11.52	2.99	2.19	2.19	2.19	16.70
	440V	9.95	9.95	1.13	1.90	1.90	1.90	12.98
Plenum Box	220V	19.90	19.90	2.25	3.80	3.80	3.80	25.95
Option	380V	11.52	11.52	1.30	2.19	2.19	2.19	15.01
	440V	9.95	9.95	1.13	1.90	1.90	1.90	12.98

Start-up Values		Compressor		Fan Motor	
Fan	Voltage	LRA	LRA	LRA	LRA
STD	220V	128.00	19.00	19.00	19.00
and	380V	74.10	11.00	11.00	11.00
Option 1	440V	64.00	9.50	9.50	9.50
	220V	128.00	28.60	19.00	19.00
Option 2	380V	74.10	16.56	11.00	11.00
	440V	64.00	14.30	9.50	9.50
Plenum Box	220V	128.00	9.90	19.00	19.00
Option	380V	74.10	5.73	11.00	11.00
	440V	64.00	4.95	9.50	9.50

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option and Option 1 - evaporator fan motor -1 CV.
- Option 2 - evaporator fan motor -1.5 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Power of the condenser fan motor -1 CV.
- Size the electrical wiring using the maximum operation currents.



Electrical Data

Table ED-2 — Genius – Electrical Features - SRVE/SIVE 050

Nominal Operation Values		Compressor		Fan Motor		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V		18.60		4.14		7.32		30.06
	380V	6.39	10.77	1.22	2.39	2.23	4.23	9.84	17.39
	440V		9.30		2.07		3.65		15.02
Option 1	220V		18.60		5.53		7.32		31.45
	380V	6.39	10.77	1.64	3.19	2.23	4.23	10.26	18.19
	440V		9.30		2.76		3.65		15.71
Option 2	220V		18.60		7.32		7.32		33.24
	380V	6.39	10.77	2.23	4.23	2.23	4.23	10.85	19.23
	440V		9.30		3.66		3.65		16.61
Plenum Box Option	220V		18.60		7.32		7.32		33.24
	380V	6.39	10.77	0.45	1.04	2.23	4.23	9.07	16.04
	440V		9.30		0.90		3.65		13.85

Maximum Operation Values		Compressor		Fan Motor		Fan Motor		Current
Fan	Voltage	CMO	CMO	CMO	CMO	CMO	CMO	A
STD	220V	24.98	5.18	9.15	39.32			
	380V	14.46	2.99	5.28	22.73			
	440V	12.49	2.59	4.58	19.66			
Option 1	220V	24.98	6.91	9.15	41.04			
	380V	14.46	3.99	5.28	23.73			
	440V	12.49	3.46	4.58	20.52			
Option 2	220V	24.98	9.15	9.15	43.28			
	380V	14.46	5.28	5.28	25.02			
	440V	12.49	4.58	4.58	21.64			
Plenum Box Option	220V	24.98	2.25	9.15	36.38			
	380V	14.46	1.30	5.28	21.04			
	440V	12.49	1.13	4.58	18.19			

Start-up Values		Compressor		Fan Motor	
Fan	Voltage	LRA	LRA	LRA	LRA
STD	220V	171.00	30.92	60.45	
	380V	99.00	17.85	34.90	
	440V	85.50	15.46	30.23	
Option 1	220V	171.00	48.36	60.45	
	380V	99.00	27.92	34.90	
	440V	85.50	24.18	30.23	
Option 2	220V	171.00	60.45	60.45	
	380V	99.00	34.90	34.90	
	440V	85.50	30.23	30.23	
Plenum Box Option	220V	171.00	11.25	60.45	
	380V	99.00	6.50	34.90	
	440V	85.50	5.63	30.23	

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -1.5 CV.
- Option 1 - evaporator fan motor -2 CV.
- Option 2 - evaporator fan motor -3 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Power of the condenser fan motor -3 CV.
- Size the electrical wiring using the maximum operation currents.

Electrical Data

Table ED-3 — Genius – Electrical Features - SRVE/SIVE 100

Nominal Operation Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V		15.40		15.40		4.14		7.32		42.26
	380V	4.74	8.92	4.74	8.92	1.22	2.39	2.23	4.23	12.93	24.46
	440V		7.70		7.70		2.07		3.65		21.12
Option 1	220V		15.40		15.40		5.53		7.32		43.65
	380V	4.74	8.92	4.74	8.92	1.64	3.19	2.23	4.23	13.35	25.26
	440V		7.70		7.70		2.76		3.65		21.81
Option 2	220V		15.40		15.40		7.32		7.32		45.44
	380V	4.74	8.92	4.74	8.92	2.23	4.23	2.23	4.23	13.94	26.30
	440V		7.70		7.70		3.66		3.65		22.71
Plenum Box Option	220V		15.40		15.40		1.80		7.32		39.92
	380V	4.74	8.92	4.74	8.92	0.45	1.04	2.23	4.23	12.16	23.11
	440V		7.70		7.70		0.90		3.65		19.95

Maximum Operation Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor		Current
Fan	Voltage	CMO	CMO	CMO	CMO	CMO	CMO	CMO	CMO	A
STD	220V	19.90	19.90	19.90	5.18	9.15	9.15	54.13		
	380V	11.52	11.52	11.52	2.99	5.28	5.28	31.31		
	440V	9.95	9.95	9.95	2.59	4.58	4.58	27.06		
Option 1	220V	19.90	19.90	19.90	6.91	9.15	9.15	55.86		
	380V	11.52	11.52	11.52	3.99	5.28	5.28	32.31		
	440V	9.95	9.95	9.95	3.46	4.58	4.58	27.93		
Option 2	220V	19.90	19.90	19.90	9.15	9.15	9.15	58.10		
	380V	11.52	11.52	11.52	5.28	5.28	5.28	33.60		
	440V	9.95	9.95	9.95	4.58	4.58	4.58	29.05		
Plenum Box Option	220V	19.90	19.90	19.90	2.25	9.15	9.15	51.20		
	380V	11.52	11.52	11.52	1.30	5.28	5.28	29.62		
	440V	9.95	9.95	9.95	1.13	4.58	4.58	25.60		

Start-up Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor	
Fan	Voltage	LRA	LRA	LRA	LRA	LRA	LRA	LRA	LRA
STD	220V	128.00	128.00	128.00	30.92	60.45	60.45		
	380V	74.10	74.10	74.10	17.85	34.90	34.90		
	440V	64.00	64.00	64.00	15.46	30.23	30.23		
Option 1	220V	128.00	128.00	128.00	48.36	60.45	60.45		
	380V	74.10	74.10	74.10	27.92	34.90	34.90		
	440V	64.00	64.00	64.00	24.18	30.23	30.23		
Option 2	220V	128.00	128.00	128.00	60.45	60.45	60.45		
	380V	74.10	74.10	74.10	34.90	34.90	34.90		
	440V	64.00	64.00	64.00	30.23	30.23	30.23		
Plenum Box Option	220V	128.00	128.00	128.00	11.25	60.45	60.45		
	380V	74.10	74.10	74.10	6.50	34.90	34.90		
	440V	64.00	64.00	64.00	5.63	30.23	30.23		

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -1.5 CV.
- Option 1 - evaporator fan motor -2 CV.
- Option 2 - evaporator fan motor -3 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Power of the condenser fan motor -3 CV.
- Size the electrical wiring using the maximum operation currents.

Electrical Data

Table ED-4 — Genius – Electrical Features - SRVE/SIVE 125

Nominal Operation Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V		18.60		15.40		5.53		9.28		48.81
	380V	6.39	10.77	4.74	8.92	1.64	3.19	2.93	5.36	15.70	28.24
	440V		9.30		7.70		2.76		4.64		24.40
Option 1	220V		18.60		15.40		7.32		9.28		50.60
	380V	6.39	10.77	4.74	8.92	2.23	4.23	2.93	5.36	16.29	29.28
	440V		9.30		7.70		3.66		4.64		25.30
Option 2	220V		18.60		15.40		9.28		9.28		52.56
	380V	6.39	10.77	4.74	8.92	2.93	5.36	2.93	5.36	16.99	30.41
	440V		9.30		7.70		4.64		4.64		26.28
Plenum Box Option	220V		18.60		15.40		1.80		9.28		45.08
	380V	6.39	10.77	4.74	8.92	0.45	1.04	2.93	5.36	14.51	26.09
	440V		9.30		7.70		0.90		4.64		22.54

Maximum Operation Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor		Current
Fan	Voltage	CMO	CMO	CMO	CMO	CMO	CMO	CMO	CMO	A
STD	220V	24.98	19.90	6.91	11.60	63.39				
	380V	14.46	11.52	3.99	6.70	36.67				
	440V	12.49	9.95	3.46	5.80	31.69				
Option 1	220V	24.98	19.90	9.15	11.60	65.63				
	380V	14.46	11.52	5.28	6.70	37.96				
	440V	12.49	9.95	4.58	5.80	32.81				
Option 2	220V	24.98	19.90	11.60	11.60	68.08				
	380V	14.46	11.52	6.70	6.70	39.38				
	440V	12.49	9.95	5.80	5.80	34.04				
Plenum Box Option	220V	24.98	19.90	2.25	11.60	58.73				
	380V	14.46	11.52	1.30	6.70	33.98				
	440V	12.49	9.95	1.13	5.80	29.36				

Start-up Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor	
Fan	Voltage	LRA	LRA	LRA	LRA	LRA	LRA	LRA	LRA
STD	220V	171.00	128.00	48.36	87.00				
	380V	99.00	99.00	27.92	50.23				
	440V	85.50	85.50	24.18	43.50				
Option 1	220V	171.00	128.00	60.45	87.00				
	380V	99.00	99.00	34.90	50.23				
	440V	85.50	85.50	30.23	43.50				
Option 2	220V	171.00	128.00	87.00	87.00				
	380V	99.00	99.00	50.23	50.23				
	440V	85.50	85.50	43.50	43.50				
Plenum Box Option	220V	171.00	128.00	11.25	87.00				
	380V	99.00	99.00	6.50	50.23				
	440V	85.50	85.50	5.63	43.50				

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -2 CV.
- Option 1 - evaporator fan motor -3 CV.
- Option 2 - evaporator fan motor -4 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Power of the condenser fan motor -4 CV.
- Size the electrical wiring using the maximum operation currents

Electrical Data

Table ED-5 — Genius – Electrical Features - SRVE/SIVE 150

Nominal Operation Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V		18.60		18.60		7.32		11.61		56.13
	380V	6.39	10.77	6.39	10.77	2.23	4.23	3.54	6.70	18.55	32.47
	440V		9.30		9.30		3.66		5.80		28.06
Option 1	220V		18.60		18.60		9.28		11.61		58.09
	380V	6.39	10.77	6.39	10.77	2.93	5.36	3.54	6.70	19.25	33.60
	440V		9.30		9.30		4.64		5.80		29.04
Option 2	220V		18.60		18.60		11.61		11.61		60.42
	380V	6.39	10.77	6.39	10.77	3.54	6.70	3.54	6.70	19.86	34.94
	440V		9.30		9.30		9.30		5.80		30.20
Plenum Box Option	220V		18.60		18.60		3.04		11.61		51.85
	380V	6.39	10.77	6.39	10.77	0.83	1.76	3.54	6.70	17.15	30.00
	440V		9.30		9.30		9.30		1.52		25.92

Maximum Operation Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor		Current
Fan	Voltage	CMO	CMO	CMO	CMO	CMO	CMO	CMO	CMO	A
STD	220V	24.98	24.98	24.98	24.98	9.15	14.51	14.51	14.51	73.62
	380V	14.46	14.46	14.46	14.46	5.28	8.38	8.38	8.38	42.58
	440V	12.49	12.49	12.49	12.49	4.58	7.26	7.26	7.26	36.82
Option 1	220V	24.98	24.98	24.98	24.98	11.60	14.51	14.51	14.51	76.07
	380V	14.46	14.46	14.46	14.46	6.70	8.38	8.38	8.38	44.00
	440V	12.49	12.49	12.49	12.49	5.80	7.26	7.26	7.26	38.04
Option 2	220V	24.98	24.98	24.98	24.98	14.51	14.51	14.51	14.51	78.98
	380V	14.46	14.46	14.46	14.46	8.38	8.38	8.38	8.38	45.68
	440V	12.49	12.49	12.49	12.49	7.26	7.26	7.26	7.26	39.50
Plenum Box Option	220V	24.98	24.98	24.98	24.98	3.80	14.51	14.51	14.51	68.27
	380V	14.46	14.46	14.46	14.46	2.19	8.38	8.38	8.38	39.49
	440V	12.49	12.49	12.49	12.49	1.90	7.26	7.26	7.26	34.14

Start-up Values		Compressor 1		Compressor 2		Fan Motor		Fan Motor	
Fan	Voltage	LRA	LRA	LRA	LRA	LRA	LRA	LRA	LRA
STD	220V	171.00	171.00	171.00	171.00	60.45	110.55	110.55	110.55
	380V	99.00	99.00	99.00	99.00	34.90	63.83	63.83	63.83
	440V	85.50	85.50	85.50	85.50	30.23	55.28	55.28	55.28
Option 1	220V	171.00	171.00	171.00	171.00	87.00	110.55	110.55	110.55
	380V	99.00	99.00	99.00	99.00	50.23	63.83	63.83	63.83
	440V	85.50	85.50	85.50	85.50	43.50	55.28	55.28	55.28
Option 2	220V	171.00	171.00	171.00	171.00	110.55	110.55	110.55	110.55
	380V	99.00	99.00	99.00	99.00	63.83	63.83	63.83	63.83
	440V	85.50	85.50	85.50	85.50	55.28	55.28	55.28	55.28
Plenum Box Option	220V	171.00	171.00	171.00	171.00	21.96	110.55	110.55	110.55
	380V	99.00	99.00	99.00	99.00	12.68	63.83	63.83	63.83
	440V	85.50	85.50	85.50	85.50	10.98	55.28	55.28	55.28

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -3 CV.
- Option 1 - evaporator fan motor -4 CV.
- Option 2 - evaporator fan motor -5 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Power of the condenser fan motor -5 CV.
- Size the electrical wiring using the maximum operation currents.

Electrical Data

Table ED-6 — Genius – Electrical Features - SAVE 050

Nominal Operation Values		Compressor		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	A
STD and Option 1	220V		14.10		3.04		17.14
	380V	4.17	8.16	0.83	1.76	5.00	9.92
	440V		7.05		1.52		8.57
Option 2	220V		14.10		4.14		18.24
	380V	4.17	8.16	1.22	2.39	5.39	10.55
	440V		7.05		2.07		9.12
Plenum Box Option	220V		14.10		1.80		15.90
	380V	4.17	8.16	0.45	1.04	4.62	9.20
	440V		7.05		0.90		7.95

Maximum operation values		Compressor	Fan Motor	Current
Fan	Voltage	CMO	CMO	A
STD and Option 1	220V	19.80	3.80	23.60
	380V	11.46	2.19	13.65
	440V	9.90	1.90	11.80
Option 2	220V	19.80	5.18	24.98
	380V	11.46	2.99	14.45
	440V	9.90	1.90	11.80
Plenum Box Option	220V	19.80	2.25	22.05
	380V	11.46	1.30	12.76
	440V	09.90	1.13	11.03

Start-up values		Compressor	Fan Motor
Fan	Voltage	LRA	LRA
STD and Option 1	220V	128.00	21.96
	380V	74.11	12.68
	440V	64.00	10.98
Option 2	220V	128.00	21.96
	380V	74.11	17.85
	440V	64.00	10.98
Plenum Box Option	220V	128.00	11.25
	380V	74.11	6.50
	440V	64.00	5.63

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option and Option 1 - evaporator fan motor -1 CV.
- Option 2 - evaporator fan motor -1.5 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Size the electrical wiring using the maximum operation currents.

Electrical Data

Table ED-7 — Genius – Electrical Features - SAVE 075

Nominal Operation Values		Compressor		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	A
STD	220V		16.99		4.14		21.13
	380V	5.68	9.84	1.22	2.39	6.90	12.23
	440V		8.50		2.07		10.57
Option 1	220V		14.10		5.53		22.52
	380V	5.68	9.84	1.64	3.19	7.32	13.03
	440V		8.50		2.76		11.26
Option 2	220V		14.10		7.32		24.31
	380V	5.68	9.84	2.23	4.23	7.91	14.07
	440V		8.50		3.66		12.16
Plenum Box Option	220V		14.10		1.80		18.79
	380V	5.68	9.84	0.45	1.04	6.13	10.88
	440V		8.50		0.90		9.40

Maximum operation values		Compressor		Fan Motor		Current
Fan	Voltage	CMO	CMO	CMO	CMO	A
STD	220V	24.98	5.18			30.16
	380V	14.46	2.99			17.45
	440V	12.49	2.59			15.08
Option 1	220V	24.98	6.91			31.89
	380V	14.46	3.99			18.45
	440V	12.49	3.46			15.95
Option 2	220V	24.98	9.15			34.13
	380V	14.46	5.28			19.74
	440V	12.49	4.58			17.07
Plenum Box Option	220V	24.98	2.25			27.23
	380V	14.46	1.30			15.76
	440V	12.49	1.13			13.62

Start-up values		Compressor		Fan Motor	
Fan	Voltage	LRA	LRA	LRA	LRA
STD	220V	171.00	30.92		
	380V	99.00	17.85		
	440V	85.50	15.46		
Option 1	220V	171.00	48.36		
	380V	99.00	27.92		
	440V	85.50	24.18		
Option 2	220V	171.00	60.45		
	380V	99.00	34.90		
	440V	85.50	30.23		
Plenum Box Option	220V	171.00	11.25		
	380V	99.00	6.50		
	440V	85.50	5.63		

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -1.5 CV.
- Option 1 - evaporator fan motor -2 CV.
- Option 2 - evaporator fan motor -3 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Size the electrical wiring using the maximum operation currents.



Electrical Data

Table ED-8 — Genius – Electrical Features - SAVE100

Nominal Operation Values		Compressor 1		Compressor 2		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V		14.10		14.10		4.14		32.34
	380V	4.17	8.16	4.17	8.16	1.22	2.39	9.56	18.71
	440V		7.05		7.05		2.07		16.17
Option 1	220V		14.10		14.10		5.53		33.73
	380V	4.17	8.16	4.17	8.16	1.64	3.19	9.98	19.51
	440V		7.05		7.05		2.76		16.86
Option 2	220V		14.10		14.10		7.32		35.52
	380V	4.17	8.16	4.17	8.16	2.23	4.23	10.57	20.55
	440V		7.05		7.05		3.66		17.76
Plenum Box Option	220V		14.10		14.10		1.80		30.00
	380V	4.17	8.16	4.17	8.16	0.45	1.04	8.79	17.36
	440V		7.05		7.05		0.90		15.00

Maximum operation values		Compressor 1	Compressor 2	Fan Motor	Current
Fan	Voltage	CMO	CMO	CMO	A
STD	220V	19.80	19.80	5.18	44.78
	380V	11.46	11.46	2.99	25.91
	440V	9.90	9.90	2.59	22.39
Option 1	220V	19.80	19.80	6.91	46.51
	380V	11.46	11.46	3.99	26.91
	440V	9.90	9.90	3.46	23.26
Option 2	220V	19.80	19.80	9.15	48.75
	380V	11.46	11.46	5.28	28.20
	440V	9.90	9.90	4.58	24.38
Plenum Box Option	220V	19.80	19.80	2.25	41.85
	380V	11.46	11.46	1.30	24.22
	440V	9.90	9.90	1.13	20.93

Start-up values		Compressor 1	Compressor 2	Fan Motor
Fan	Voltage	LRA	LRA	LRA
STD	220V	128.00	128.00	30.92
	380V	74.11	74.11	17.85
	440V	64.00	64.00	15.46
Option 1	220V	128.00	128.00	48.36
	380V	74.11	74.11	27.92
	440V	64.00	64.00	24.18
Option 2	220V	128.00	128.00	60.45
	380V	74.11	74.11	34.90
	440V	64.00	64.00	30.23
Plenum Box Option	220V	128.00	128.00	11.25
	380V	74.11	74.11	6.50
	440V	64.00	64.00	5.63

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -1.5 CV.
- Option 1 - evaporator fan motor -2 CV.
- Option 2 - evaporator fan motor -3 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Size the electrical wiring using the maximum operation currents.

Electrical Data

Table ED-9 — Genius – Electrical Features - SAVE125

Nominal Operation Values		Compressor 1		Compressor 2		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V	5.68	16.99	4.17	14.10	1.64	5.53	11.49	36.62
	380V		9.84		8.16		3.19		21.19
	440V		8.50		7.05		2.76		18.31
Option 1	220V	5.68	16.99	4.17	14.10	2.23	7.32	12.08	38.41
	380V		9.84		8.16		4.23		22.23
	440V		8.50		7.05		3.66		19.21
Option 2	220V	5.68	16.99	4.17	14.10	2.93	9.28	12.78	40.37
	380V		9.84		8.16		5.36		23.36
	440V		8.50		7.05		4.64		20.19
Plenum Box Option	220V	5.68	16.99	4.17	14.10	0.45	1.80	10.30	32.89
	380V		9.84		8.16		1.04		19.04
	440V		8.50		7.05		0.90		16.45

Maximum Operation Values		Compressor 1	Compressor 2	Fan Motor	Current
Fan	Voltage	CMO	CMO	CMO	A
STD	220V	24.98	19.80	6.91	51.69
	380V	14.46	11.46	3.99	29.91
	440V	12.49	9.90	3.46	25.85
Option 1	220V	24.98	19.80	9.15	53.93
	380V	14.46	11.46	5.28	31.20
	440V	12.49	9.90	4.58	26.97
Option 2	220V	24.98	19.80	11.60	56.38
	380V	14.46	11.46	6.70	32.62
	440V	12.49	9.90	5.80	28.19
Plenum Box Option	220V	24.98	19.80	2.25	47.03
	380V	14.46	11.46	1.30	27.22
	440V	12.49	9.90	1.13	23.52

Start-up Values		Compressor 1	Compressor 2	Fan Motor
Fan	Voltage	LRA	LRA	LRA
STD	220V	171.00	128.00	48.36
	380V	99.00	74.11	27.92
	440V	85.50	64.00	24.18
Option 1	220V	171.00	128.00	60.45
	380V	99.00	74.11	34.90
	440V	85.50	64.00	24.18
Option 2	220V	171.00	128.00	87.00
	380V	99.00	74.11	50.23
	440V	85.50	64.00	43.50
Plenum Box Option	220V	171.00	128.00	11.25
	380V	99.00	74.11	6.50
	440V	85.50	64.00	5.63

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -2 CV.
- Option 1 - evaporator fan motor -3 CV.
- Option 2 - evaporator fan motor -4 CV.
- Plenum box option - evaporator fan motor -0.5 CV.
- Size the electrical wiring using the maximum operation currents.



Electrical Data

Table ED-10 — Genius – Electrical Features - SAVE150

Nominal Operation Values		Compressor 1		Compressor 2		Fan Motor		Consumption	Current
Fan	Voltage	KW	CNO	KW	CNO	KW	CNO	KW	A
STD	220V		16.99		16.99		7.32		41.30
	380V	5.68	9.84	5.68	9.84	2.23	4.23	13.59	23.91
	440V		8.50		8.50		3.66		20.66
Option 1	220V		16.99		16.99		9.28		43.26
	380V	5.68	9.84	5.68	9.84	2.93	5.36	14.29	25.04
	440V		8.50		8.50		4.64		21.64
Option 2	220V		16.99		16.99		11.61		45.59
	380V	5.68	9.84	5.68	9.84	3.54	6.70	14.90	26.38
	440V		8.50		8.50		5.80		22.80
Plenum Box Option	220V		16.99		16.99		3.04		37.02
	380V	5.68	9.84	5.68	9.84	0.83	1.76	12.19	21.44
	440V		8.50		8.50		1.52		18.52

Maximum Operation Values		Compressor 1	Compressor 2	Fan Motor	Current
Fan	Voltage	CMO	CMO	CMO	A
STD	220V	24.98	24.98	9.15	59.11
	380V	14.46	14.46	5.28	34.20
	440V	12.49	12.49	4.58	29.56
Option 1	220V	24.98	24.98	11.60	61.56
	380V	14.46	14.46	6.70	35.62
	440V	12.49	12.49	5.80	30.78
Option 2	220V	24.98	24.98	14.51	64.47
	380V	14.46	14.46	8.38	37.30
	440V	12.49	12.49	7.26	32.24
Plenum Box Option	220V	24.98	24.98	3.80	53.76
	380V	14.46	14.46	2.19	31.11
	440V	12.49	12.49	1.90	26.88

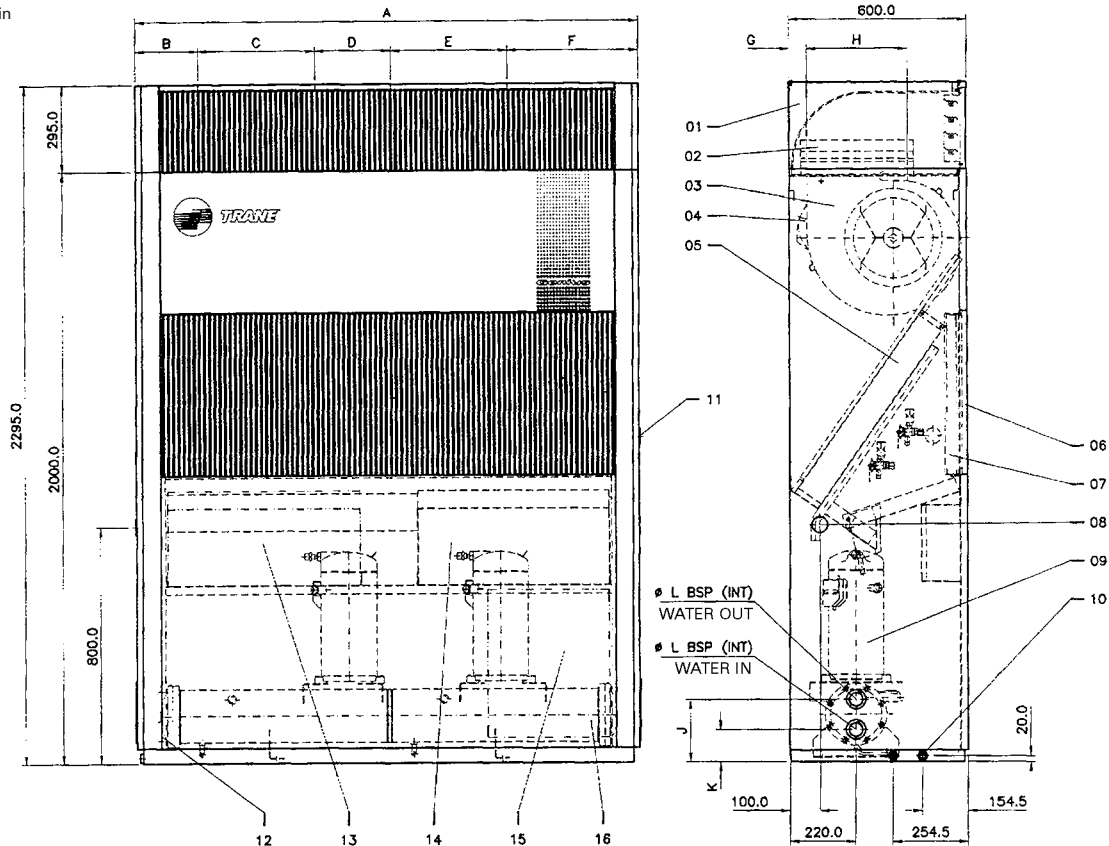
Start-up Values		Compressor 1	Compressor 2	Fan Motor
Fan	Voltage	LRA	LRA	LRA
STD	220V	171.00	171.00	60.45
	380V	99.00	99.00	34.90
	440V	85.50	85.50	30.23
Option 1	220V	171.00	171.00	87.00
	380V	99.00	99.00	50.23
	440V	85.50	85.50	43.50
Option 2	220V	171.00	171.00	110.55
	380V	99.00	99.00	63.83
	440V	85.50	85.50	55.28
Plenum Box Option	220V	171.00	171.00	21.96
	380V	99.00	99.00	12.68
	440V	85.50	85.50	10.98

- To know which ventilation option should be used, consult the behavior of the ventilation options.
- CNO = Nominal operation current (A).
- CMO = Maximum operation current.
- LRA = Locked rotor amps.
- STD Option - evaporator fan motor -3 CV.
- Option 1 - evaporator fan motor -4 CV.
- Option 2 - evaporator fan motor -5 CV.
- Plenum box option - evaporator fan motor -1 CV.
- Size the electrical wiring using the maximum operation currents.

Dimensions

SAVE

All dimensions are in



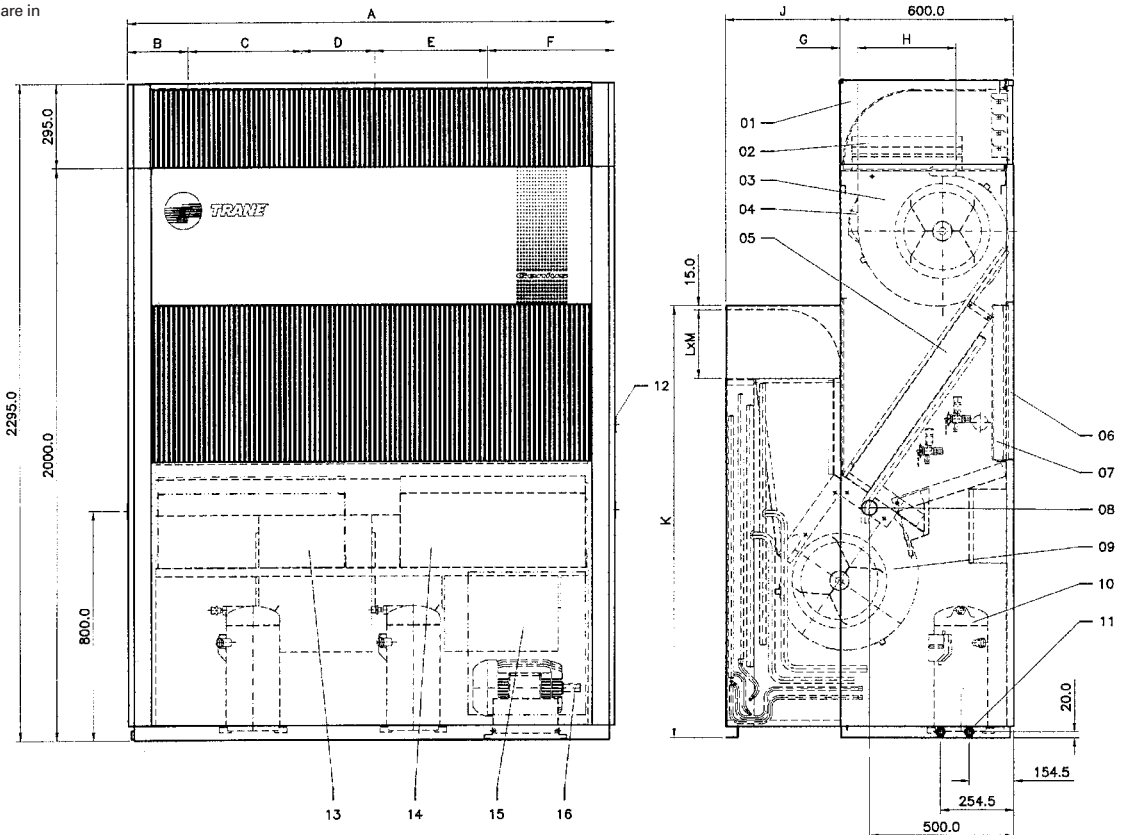
- 01 - Plenum box with optional supply screen
- 02 - Resistor box for heating (optional)
(control and power panel for external heating)
- 03 - Double [intake / exhaust] (evaporator) Centrifugal fan
- 04 - Supply motor
- 05 - Evaporating coil
- 06 - Return screen (optional)
- 07 - Filters
- 08 - Spacing for energy intake wire f 46.5 (right/left)
- 09 - Scroll compressor
- 10 - Drain f 1/2" BSP (left)
- 11 - Spacing for remote thermostat wire f 46.5
- 12 - Water intake and outlet (left/right)
- 13 - Electric panel for electric control model 100/125/150 (optional)
- 14 - Electric panel
- 15 - Electric panel for electric control model 050/075 (optional)
- 16 - Shell and tube condenser

Model	A	B	C	D	E	F	G	H	J	K	ø L
050	38 (960)	9 (230)	13 (333)	-	-	16 (397)	5 (127)	11 (289)	10 (263)	5 (113)	1"
075	47 (1190)	15 (367)	16 (396)	-	-	17 (427)	2 (57)	13 (341)	10 (263)	5 (113)	1"
100	59 (1500)	7 (175)	13 (333)	9 (230)	13 (333)	17 (429)	5 (127)	11 (289)	8 (213)	4 (111)	1 1/2"
125	67 (1700)	8 (210)	16 (396)	10 (255)	16 (396)	17 (443)	2 (57)	13 (341)	8 (213)	4 (111)	1 1/2"
150	67 (1700)	8 (210)	16 (396)	10 (255)	16 (396)	17 (443)	2 (57)	13 (341)	8 (213)	4 (111)	1 1/2"

Dimensions

SRVE

All dimensions are in



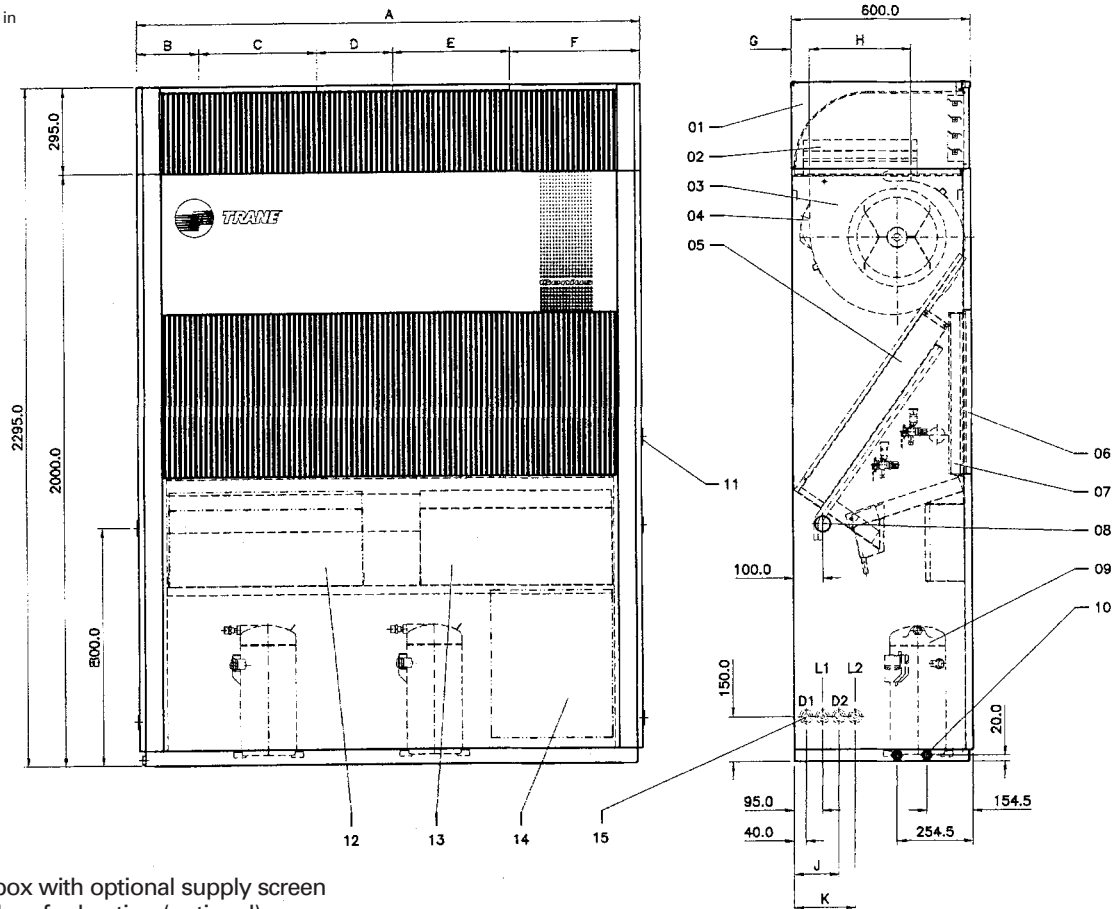
- 01 - Plenum box with optional supply screen
- 02 - Resistor box for heating (optional)
(control and power panel for external heating)
- 03 - Double [intake / exhaust] (evaporator) Centrifugal fan
- 04 - Supply motor
- 05 - Evaporating coil
- 06 - Return screen (optional)
- 07 - Filters
- 08 - Spacing for energy intake wire f 46.5 (right/left)
- 09 - Double [intake / exhaust] (condenser) Centrifugal fan
- 10 - Scroll compressor
- 11 - Drain f 1/2" BSP (left)
- 12 - Spacing for remote thermostat wire f 46.5
- 13 - Electric panel for electric control model 100/125/150 (optional)
- 14 - Electric panel
- 15 - Electric panel for electric control model 050/075 (optional)
- 16 - Shell and tube condenser

Model	A	B	C	D	E	F	G	H	J	K	L	M
050	38 (960)	9 (230)	13 (333)	–	–	16 (397)	5 (127)	11 (289)	5 (120)	47 (1180)	10 (258)	36 (920)
075	47 (1190)	15 (367)	16 (396)	–	–	17 (427)	2 (57)	13 (341)	5 (120)	47 (1180)	10 (258)	45 (1150)
100	59 (1500)	7 (175)	13 (333)	9 (230)	13 (333)	17 (429)	5 (127)	11 (289)	9 (230)	48 (1210)	10 (247)	58 (1460)
125	67 (1700)	8 (210)	16 (396)	10 (255)	16 (396)	17 (443)	2 (57)	13 (341)	16 (400)	50 (1280)	9 (240)	65 (1660)
150	67 (1700)	8 (210)	16 (396)	10 (255)	16 (396)	17 (443)	2 (57)	13 (341)	16 (400)	59 (1510)	9 (240)	65 (1660)

Dimensions

SIVE

All dimensions are in



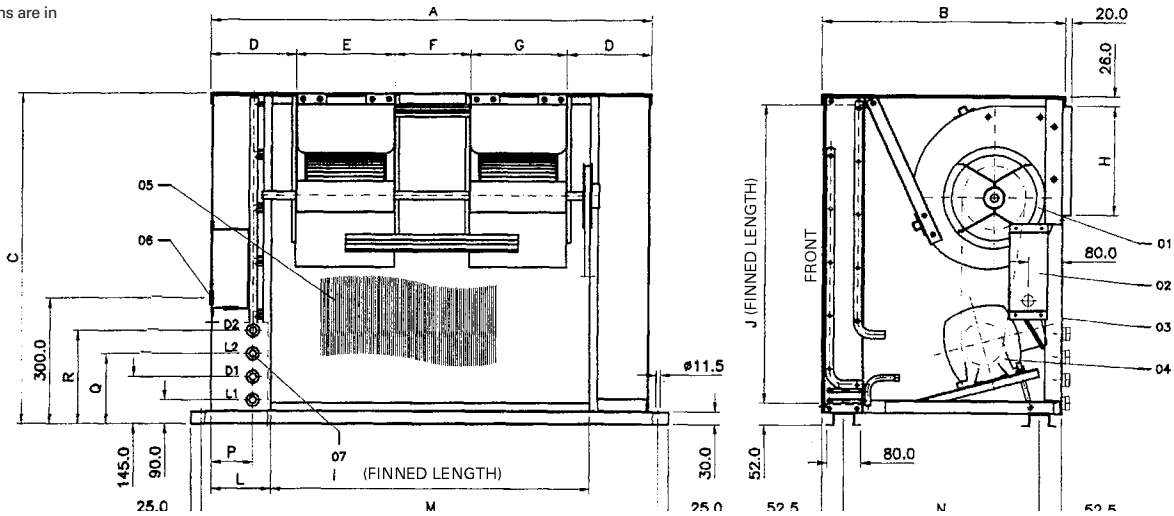
- 01 - Plenum box with optional supply screen
- 02 - Resistor box for heating (optional)
(control and power panel for external heating)
- 03 - Double [intake / exhaust] (evaporator) Centrifugal fan
- 04 - Supply motor
- 05 - Evaporating coil
- 06 - Return screen (optional)
- 07 - Filters
- 08 - Spacing for energy intake wire f 46.5 (right/left)
- 09 - Scroll compressor
- 10 - Drain f 1/2" BSP (left)
- 11 - Spacing for remote thermostat wire f 46.5
- 12 - Electric panel for electric control model 100/125/150 (optional)
- 13 - Electric panel
- 14 - Electric panel for electric control model 050/075 (optional)
- 15 - Prep for spacing for f 46.5 (right/left) lines

Model	A	B	C	D	E	F	G	H	J	K	D1	D2	L1	L2
050	38 (960)	9 (230)	13 (333)	-	-	16 (397)	5 (127)	11 (289)	-	-	5/8"	-	1/2"	-
075	47 (1190)	15 (367)	16 (396)	-	-	17 (427)	2 (57)	13 (341)	-	-	3/4"	-	1/2"	-
100	59 (1500)	7 (175)	13 (333)	9 (230)	13 (333)	17 (429)	5 (127)	11 (289)	6 (150)	8 (205)	5/8"	5/8"	1/2"	1/2"
125	67 (1700)	8 (210)	16 (396)	10 (255)	16 (396)	17 (443)	2 (57)	13 (341)	6 (150)	8 (205)	3/4"	5/8"	1/2"	1/2"
150	67 (1700)	8 (210)	16 (396)	10 (255)	16 (396)	17 (443)	2 (57)	13 (341)	6 (150)	8 (205)	3/4"	3/4"	1/2"	1/2"

Dimensions

CRCB

All dimensions are in



- 01 - Double [intake / exhaust] Centrifugal fan
- 02 - Terminal box
- 03 - Service panel
- 04 - Motor
- 05 - Condensing coil
- 06 - Spacing for ϕ 27 energy intake wire
- 07 - Refrigeration connections (only one setting)

Model	A	B	C	D	E	F	G	H	I	J	L	M	N	P	Q	R	ϕ L1	ϕ D1	ϕ L2	ϕ D2
050	39 (987)	25 (631)	35 (890)	12 (295.5)	16 (396)	-	-	13 (341)	30 (762)	28 (711)	4 (110)	41 (1029)	21 (521)	5 (132)	-	-	1/2"	5/8"	-	-
075	49 (1241)	25 (631)	35 (890)	17 (422.5)	16 (396)	-	-	13 (341)	40 (1016)	32 (816.5)	4 (110)	51 (1283)	21 (521)	5 (132)	-	-	1/2"	3/4"	-	-
100	49 (1341)	25 (631)	37 (941)	9 (212.5)	13 (333)	9 (230)	13 (333)	11 (289)	45 (1143)	34 (863.5)	4 (97)	55 (1383)	21 (521)	6 (159)	8 (200)	10 (255)	1/2"	5/8"	1/2"	5/8"
125	65 (1646)	28 (714)	40 (1018)	12 (299.5)	16 (396)	10 (255)	16 (396)	13 (341)	58 (1473)	37 (940)	3 (84)	67 (1688)	24 (604)	9 (236)	8 (200)	10 (255)	1/2"	3/4"	1/2"	5/8"
150	65 (1646)	28 (714)	49 (1247)	12 (299.5)	16 (396)	10 (255)	16 (396)	13 (341)	58 (1473)	46 (1168)	3 (84)	67 (1688)	24 (604)	9 (236)	8 (200)	10 (255)	1/2"	3/4"	1/2"	5/8"

Mechanical Specifications

Cabinet

Manufactured of galvanized steel plate, it is painted with anticorrosive primer and high resistance synthetic enamel. The cabinet is constructed with an bottom tray, structural laterals, front screen and cover and back cover. The remote condenser cabinet is painted with epoxy primer and high resistance enamel and is also constructed of galvanized steel plate.

For frontal access to the evaporator units, just loosen four screws to remove the cover and the screen.

Return Screen

Screen of anodized aluminum profile with vertical flanges. Vertical screens provide excellent air distribution in the coil. This option is recommended for hulls in which the machine is visible in the zone to be air-conditioned.

Plenum Box

The style of the plenum box is similar to that of the cabinet and is sized to guarantee silent operation. The plenum box screen has a slight angle that allows the air flow to be directed in a vertical or lateral direction. A specific fan array exists for use of the Genius unit with plenum box (consult the general facts tables).

This plenum should only be used when the discharge from the unit is free into the atmosphere. In the case of discharge into a duct network, this option should not be used.

Coils

All the coils (evaporator and condenser) use tubes with 3/8" external diameter and high efficiency aluminum fins, *Trane Wavy 3B* model, mounted on the evaporator coil with 132 fins per foot, and on the condenser with 168 fins per foot.

The copper tubes are expanded mechanically to guarantee perfect contact between fin and tube. All the coils are tested for leaks. Evaporator coils are tested at a pressure of 300 PSIG, and the condensers at 400 PSIG.

The tray for condensation water was designed according to the interior air quality standards of ASHRAE.

Copper-Copper Coils

For applications where greater resistance against corrosion is necessary, coils with copper tubes and fins can be manufactured. Offer as special design.

Water-cooled condenser

Water-cooled condensers are "Shell and Tube" type. They are manufactured with copper tubes with integrated flanges, expanded in steel mirrors, with grooved holes, mounted in a steel casing and cast iron covers, which are removable for easy cleaning. The casing and covers are protected with finishing paint.

Designed, constructed and tested according to ASME standards, for work pressure of 300 PSIG on the refrigerant side and 150 PSIG on the water side.

Fans

Sirocco type centrifugal fans, constructed of galvanized steel plate with static and dynamically balanced rotors. The evaporator array is sized to overcome up to 1.6 inches of external static pressure.

Filters

The standard unit is furnished with permanent washable filters of electrostatic fabric.

Also Available:

Metallic permanent filters (standard)
Disposable fiberglass filters of 1" thickness
Combination in series of the two previous filters

Scroll Compressor

All compressors of the *Genius* line are scroll type. They are of high efficiency using ports instead of valves, which eliminates possible breakdowns. They have 64% fewer moveable parts than a reciprocating compressor of the same capacity. Their operation is extremely smooth and silent.

Mechanical Specifications

Safety and Protection Devices

The equipment is protected by high and low pressure pressurestats with automatic resets and fixed calibration, internal thermostat with automatic reset

in the compressor, current overload relay for the compressor and overload thermal relay for the fan motors.

Water-cooled condensers are protected by a fusible top.

Regulating points for high and low pressure pressurestats	Stop - PSIG	Start-up - PSIG
Machines with water condensation	275 +/- 15	185 +/- 15
Machines with air condensation	395 +/- 15	280 +/- 20
Machines with water and air condensation	25 +/- 8	80 +/- 12

Cooling Components

In the suction and discharge lines Rotalock type service valves are available. The liquid line has a 1/4" SAE Schrader valve.

A drying filter is installed in the liquid line. For the SIVE model the drying filter

has a screw connection. For the SAVE and SRVE models, the filter is welded.

The following table shows the refrigerant tube diameters relative to the equipment cooling circuits.

Line diameter	Suction line	Discharge line	Liquid line
5 TR circuit	7/8"	5/8"	1/2"
7.5 TR circuit	1 1/8"	3/4"	1/2"
10 TR circuit	1 1/8"	7/8"	5/8"

Controls

Units are provided with a control thermostat. This thermostat can be installed remotely or in the equipment, depending on the needs of the client.

As Option:

Programmable Thermostat
UCP Microprocessor Control

Service Valve

Service valve for the liquid line.

Condensation Pressure Controller

A set with pressurestatic valves to control the condensation pressure in machines with air-cooled condensers.

High pressure pressurestat with manual reset

Liquid Tank

Only for the SIVE model.

Liquid Viewer

Auxiliary maintenance component, indicates the existence of humidity inside the equipment.

Solenoid Valve

Auxiliary component that allows confinement of the refrigerant in the condenser for later extraction.

Supply Voltage 220V, 380V, 440V, triphasics, 60 Hz.

Electric Heating

Includes heating resistors, stainless steel tubes, a contact unit, fuses, a control thermostat and safety thermostat, all properly installed.

The control scheme considers the use of heating resistors.

Tests

Genius line equipment are shipped fully tested from the factory. The standard tests consist of visual inspections, leak tests, fan start-up followed by start-up and operation of the unit.

Trane offers the following factory tests:
Basic production test with inspector.
Performance test.
Complete test with or without an inspector present.



The Trane Company
3600 Pammel Creek Road
La Crosse, WI 54601-7599
www.trane.com

An American Standard Company

Literature Order Number	PKG-PRC007-EN
File Number	PL-UN-PKG-000-PRC007-EN-100
Supersedes	New
Stocking Location	La Crosse

Since The Trane Company has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.