

Model 559E120 cooling unit combines total adaptability with air conditioning excellence to provide an economical, high-performance system for commercial, industrial, or educational establishments.

The 559E120 is a one-piece, compact unit that can be used for either ground level or rooftop applications. It is pre-wired and pre-charged ready for easy rigging and placement.

Economical and versatile, the 559E120 offers a wide selection of accessories to satisfy specific installation requirements.

#### **FEATURES**

TWO INDEPENDENT REFRIGERATION CIRCUITS, each with its own compressor, allow operation of only the circuitry necessary to maintain desired conditions. One circuit can be serviced while the second provides continued operation, resulting in less down time and lower service costs Exceptional part-load performance keeps energy costs low

HEAVY-DUTY, HIGH-CAPACITY TWIN HERMETIC COM-PRESSORS are designed and built for maximum efficiency and operating reliability. They are equipped with crankcase heaters, internal linebreak protection against overcurrent and overtemperature, larger bearing journals, larger valves and an extra-large oil pump.

**SHORT-CYCLE PROTECTION** shuts compressor down if any safety device trips Device can be reset manually at the thermostat.

**LOW-PRESSURE SWITCH AND HIGH-PRESSURE VALVE** prevent possible damage during abnormal operating conditions.

FILTER-DRIERS are included to trap moisture and dirt

**WEATHER-RESISTANT CABINET** is galvanized, bonderized and coated with baked enamel finish for durability under all climate conditions

**VARIABLE-SPEED BELT DRIVE** in the evaporator fan motor provides quiet, high-volume fan operation.

#### FIELD-INSTALLED ACCESSORIES

Downturn plenum

**Economizer** 

Electric heater

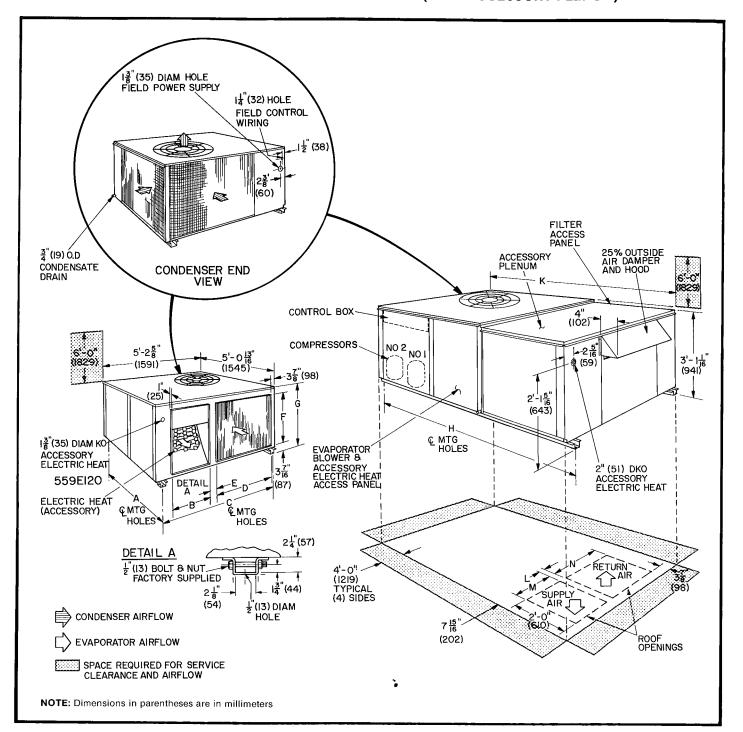
Roof curb

Thermostat and subbase

Head pressure control

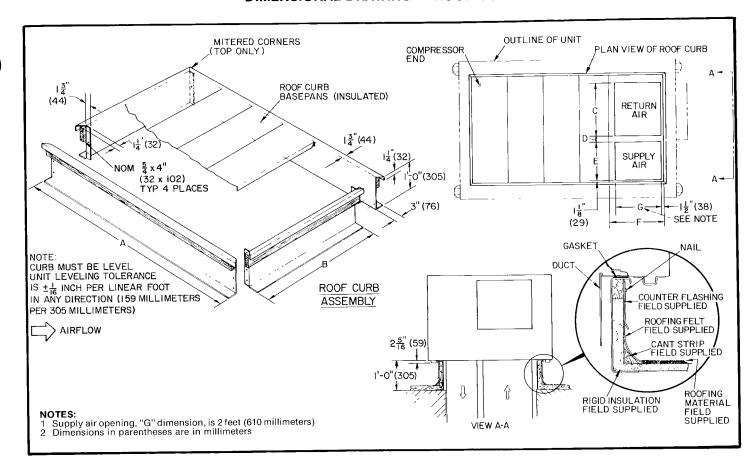
Anti-recycle control

# DIMENSIONAL DRAWING — MODEL 559E120 (WITH ACCESSORY PLENUM)



Dimensions	Α	В	С	D	E	F	G	н	К	L	М	N
feet-inches	5-3	1-211/16	4-813/16	2-11	0-213/16	2-9%	3-2%	8-51/16	8-31/4	0-11/16	1-511/16	2-31/16
millimeters	1600	373	1443	889	71	848	981	2577	2521	27	449	690

# **DIMENSIONAL DRAWING — ROOF CURB**



Base Unit Model No.	559E120*							
Roof Curb	311962-201							
Model No.	feet-inches	millimeters						
A B C D E F	7-07/ <sub>6</sub> 4-07/ <sub>8</sub> 2-33/ <sub>16</sub> 0-17/ <sub>16</sub> 1-517/ <sub>16</sub> 2-01/ <sub>16</sub>	2148 1241 691 27 449 611						

<sup>\*</sup>Dimensions apply to 559E120 units with accessory plenum

# **SPECIFICATIONS**

•	_	SI		ENGLISH	
OPERATING WEIGHT					
Unit	kg	354	ib	780	
Plenum		82		180	
Economizer		14		30	
Roof Curb		102		225	
ELECTRICAL					
Unit Volts-Phase (50 Hz)		400-3		400-3	
Operating Voltage Range		342-457		342-457	
Min Ampacity for Wire Sizing		33		33	
Max Fuse Size (Amps)*		40		40	
COMPRESSORS & REFRIGERANT					
Compressor No 1 Type†		P64		P64	
Rated Load Amps		10 4		10 4	
Locked Rotor Amps		49 0		49 0	
Compressor No 2 Type†		P64		P64	
Rated Load Amps		10 4		10 4	
Locked Rotor Amps		49 0	1	49 0	
System No 1 Refrigerant R-22 Amount	kg	3 31	lb	73	
System No 2 Refrigerant R-22 Amount	kg	3 63	lb	8 0	
INDOOR COIL‡					
Coil Face Area	m²	79	sqft	8 5	
Rows/Fin Spacing	mm	4/381	in	4/15	
INDOOR BLOWER & MOTOR**					
Size	mm	305 x 279	in	12 x 11	
Nominal Air Quantity	l/s	1699	cfm	3600	
Speed Range	r/s	12 1 - 16 4	rpm	725 - 985	
Max Allowable Speed	r/s	25	rpm	1500	
Fan Pulley Pitch Diameter	mm	140	in	5 5	
Belt Number Type Length	mm	1 V .1168	in	1 V 46	
Speed Change per Full Turn of Movable Pulley Flange	r/s	0 9	rpm	52	
Movable Pulley Max Full Turns from Closed Position		5		5	
Factory Setting — Full Turns Open		2		2	
Factory Speed Setting	r/s	14 7	rpm	880	
Motor	watts	1119	hp	15	
Nominal Motor Speed	r/s	23 8	rpm	1425	
OUTDOOR COIL‡					
Coil Face Area	m²	2 06	sq ft	22 2	
Rows/Fin Spacing	mm	2/381	in	2/15	
OUTDOOR FAN & MOTOR††					
Nominal Air Quantity	I/s	2949	cfm	6250	
Number Diameter	mm	1 660	in	1 26	
Motor	watts	746	hp	1	
INDOOR AIR FILTERS‡‡					
Quantity Size	mm	2 508 x 635 x 51 2 406 x 635 x 51	in	2 20 x 25 x 2 2 . 16 x 25 x 2	
OPTIONAL EQUIPMENT					
Downturn plenum		311963-			
Economizer		311961-			
Electric heater		311965-201, 311965-	202, 311965-203		
Roof curb		311962-	201		
Thermostat		P272-27	783		
Subbase(s)		P272-1882, P2	272-1885		
Head pressure control	307183-101				
Anti-recycle control		311958-	201		

<sup>\*</sup>Fuse only
†Full Hermetic, 2 cylinders
‡Copper tubes, aluminum plate fins
\*\*One centrifugal, adjustable belt drive
††Propeller type, direct drive
‡‡10% efficient, fiberglass throwaway filters

# **FAN PERFORMANCE — SI**

External Static P								Pressu	re (Pa)	Pa)											
Unit	L/s	/s 25		5	0	7	5	10	10	12	25	14	9	17	4	19	9	22	4	24	19
ļ		Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW
559E120	1557 1652 1746 1840 1888 1935 2029 2124	752 782 818 839 859 899 936	1 06 1 22 1 44 1 57 1 69 1 95 2 19	748 774 804 843 864 885 923	0 99 1 12 1 28 1 52 1 64 1 78 2 02 2 27	772 796 832 870 890 910 945	1 05 1 18 1 36 1 60 1 73 1 86 2.09	796 823 860 898 916 935 967	1 11 1 25 1 45 1 69 1 81 1 94 2.16 2.46	824 854 889 924 941 959	1 18 1 33 1 54 1 78 1 90 2.01 2.27	857 884 917 950 967 982 1023	1 26 1 42 1 63 1 85 1 97 2 08 2 38	1012	1 33 1 50 1 70 1 92 2 04 2 18 2 47	920 944 972 1005 1023 1041	1 41 1 58 1.78 2.01 2 13 2.27	951 975 1002 1034 1050 1067	1 46 1.65 1.81 2.03 2.22 2.36	1075	1.55 1.72 1.89 2.18 2.31 2.46

Field-supplied motor and drive is required **kW** — Kilowatts **Rpm** — Revolutions per n

Rpm — Revolutions per minute

NOTES:

1 Fan performacne is based on wet coil and deducted casing losses

2 Service factor up to 150% of motor nominal horsepower may be used with original motor

Values in italics indicate that field-supplied drive may be used with

standard motor

### **FAN PERFORMANCE — ENGLISH**

									Ex	ternal S	tatic P	ressure	(in. w	g)							
Unit	Cfm	0.	1	0.	2	0.	3	0.	4	0.	5	0.0	6	0.	7	0.	8	0.	9	1.0	0
	l '	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW	Rpm	kW
559E120	3300 3500 3700 3900 4000 4100 4300 4500	752 782 818 839 859 899	1 06 1 22 1 44 1 57 1 69 1 95 2 19	748 774 804 843 864 885 923	0 99 1 12 1 28 1 52 1 64 1 78 2 02	772 796 832 870 890 910 945	1 05 1 18 1 36 1 60 1 73 1 86 2.09	796 823 860 898 916 935 967	1 11 1 25 1 45 1 69 1 81 1 94 2.16	824 854 889 924 941 959	1 18 1 33 1 54 1 78 1 90 2.01 2.27		1 26 1 42 1 63 1 85 1 97 2 38 2 38	888 914 945 975 993 1012 1050	1.33 1.50 1.70 1.92 2.04 2.18 2.47	920 944 972 1005 1023 1041	1 41 1 58 1 78 2 01 2 13 2 27 —	951 975 3002 1034 1050 1067	1 46 1 65 1 81 2 09 2 22 2 36	1032	1 55 1.72 1.89 2.18 2.31 2.46

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- standard motor

# **COOLING CAPACITIES — ENGLISH**

					<del>"</del>	<u></u>	Evap Air –	– Cfm/BF					
Tem	ıp (F)		2700	/.03			3600	/.05			4000	/ 06	
	Ent ond						Evap Air -	- Ewb (F)					
		72	67	62	57	72	67	62	57	72	67	62	57
70	TC	127 6	117 4	111 4	105 6	128 2	122 4	111 6	111 6	128 4	123 6	114.2	114 2
	SHC	64.2	79 0	95 0	104.8	65.2	89.4	111.4	111 4	69.0	93.0	114.2	114.2
	kW	10.48	10.12	9.44	9.16	10.50	10.34	9.86	9.86	10.52	10.42	10.00	10.00_
85	TC	118 0	107 8	99 6	95 8	120 0	112 6	103 8	103 8	120 8	114 0	106 6	106 6
	SHC	60.2	75.0	89.4	95 4	64.2	85.8	103.6	103.6	67.4	90.0	106.6	106.6
	kW	11 42	10.94	10 36	10.18	11.54	11.20	10.76	10.76	11.58	11.28	10.92	10.92
95	TC	111 2	101 4	91 6	89 2	115 0	106 0	98 6	98 6	115 8	107 4	101 4	101 4
	SHC	57.6	72.2	85.6	89.0	63.6	83.4	98.4	98.4	66.4	87.8	101.4	101.4
	kW	12 02	11 48	10 96	10 86	12 24	11 78	11.34	11 36	12 30	11.85	11.54	11.54
100	TC	107 8	98 2	87 8	86 0	112 4	102 8	96 0	96 0	113 2	104 2	99 0	99 0
	SHC	56.4	71.0	83 6	85.8	63.4	82.4	95.8	95.8	66.0	86 8	98.8	98.8
	kW	12 34	11 76	11 28	11 20	12 60	12 06	11 64	11 66	12 64	12 14	11 84	11 84
105	TC	104 2	93 6	83 8	82 4	108 6	98 2	92 2	92 2	109 4	99 8	95 2	95 2
	SHC	55 2	69 2	80.4	82.4	62.2	80.6	92.2	92.2	64.8	85 0	95 2	95 2
	kW	12 6	12 06	11 62	11 56	12 88	12 34	11 98	12 00	12 94	12 44	12 18	12 18
115	TC	97 0	84 4	75 8	75 2	101 0	89 2	84 8	84 6	102 0	91 0	88 0	88 0
	SHC	52 6	65 6	74.2	75.2	59.8	77.2	84.8	84.6	62.4	81.8	87.8	88.0
	kW	13 16	12 62	12 30	12 26	13 44	12 90	12 68	12 68	13 52	13 00	12.84	12.82
125	TC SHC kW	=	76 1 62.2 13 21	68 6 68.5 13 02	68 6 68.6 13 00	_ _ _	81 0 73 9 13 49	78 0 78 0 13 42	77 6 77 6 13 40	<u>-</u>	83 0 78.7 13 59	80 5 80.5 13 54	80 5 80 5 13 49

SHC — Gross Sensible Capacity
TC — Gross Total Capacity

BF — Bypass Factor
Cfm — Cubic feet per minute
Ewb — Entering wet-bulb
W — Power input (includes compressor
and outdoor fan motor) as follows:

012 = 10 kW

NOTES:

Ratings are gross, and do not account for the effects of the indoor fan motor power and heat
Direct interpolation is permissible Do not extrapolate
SHC is based on 80° F db temperature of air entering the indoor unit At any other temperature, correct the SHC read from the table of cooling capacities as follows: cities as follows:

Corrected SHC $_{Btu/h}$  = SHC + [1 10 x (1 - BF) x (F $_{db}$  - 80) x cfm]

Observe the rule of signs. Above 80° F, SHC correction will be positive, add it to SHC Below 80° F, SHC correction will be negative, subtract it from SHC

4 Formulas:

 $F_{ldb} = F_{edb} - \frac{SHC_{Btu/h}}{1.10 \text{ x cfm}}$ 

 $h_{lwb} = h_{ewb} - \frac{1}{4.50 \times cfm}$ 

Where h<sub>ewb</sub> is enthalpy of air entering evaporator coil (Btu/lb)

#### NOMINAL CAPACITY RATINGS

Unit	C4	Cooling	
Unit	Cfm	Cap. (Btu/h)	EER
559E120	3600	106,000	90

Above ratings do not reflect the effect of indoor fan motor heat or power consumption Supplementary electric heat is not included

Ratings are based on a  $cooling\ standard$  of 80° F db, 67° F wb indoor entering air temperature, 95° F db, air entering outdoor unit and 400 cfm/ton

# **ELECTRICAL DATA — SI and ENGLISH**

Unit	Nominał V/PH/HZ	Voltage Range		Compr*		OFM†	IFM†		Power Supply	
0		Min	Max	RLA	LRA	FLA	Hp	FLA	MCA	MOCP‡
559E120	400/3/50	342	457	10 4 (ea)	49 0 (ea)	5 5	2	3 4	33	40

Compr — Compressor Full Load Amps Horsepower Indoor Fan Motor Locked Rotor Amps LRA Minimum Circuit Amps

 Maximum Overcurrent Protection
 Outdoor Fan Motor MOCP

Rated Load Amps

\*Units have 2 compressors; values apply to each †Indoor and outdoor fan motors are 230/1/50 ‡Fuse only

#### NOTES:

- Motor RLA and FLA values are established in accordance with Underwriters Laboratores (UL) Standard 465
  MCA and MOCP values are calculated in accordance with National Elec-
- trical Code (NEC) USA, Article 440

# **ACCESSORY STATIC PRESSURE LOSSES** (in. wg) — ENGLISH

11	04		Hea	ters		Plenum*
Unit	Cfm	Low	Medium	Med Hi	High	Pienum
559E120	2600 3500 4000 4500	08 14 21 29	10 19 26 35	10 19 26 35	17 27 36 4ô	14 18 20 22

<sup>\*</sup>Standard filter pressure drop included in 559E with accessory plenum

# **ELECTRIC HEATING CAPACITIES — ENGLISH**

Unit	Volts/ Ph	Heater Size	Total kW	kW Stage 1*	Btu/h (1000)	kW Stage 2*	Btu/h (1000)
559E120	400/3	Low Medium Med Hi High	4 8 14 4 19 7 29 5	48 91 98 98	16 6 31 1 33 6 33 6	53 98 197	18 1 33 6 67 1

<sup>\*</sup>Staged heating available if outdoor thermostat used Additional thermostats may be wired into the control circuit for additional stages of heating, if desired

# SELECTION PROCEDURE (with example) — ENGLISH

#### I ESTABLISH REQUIREMENTS AT DESIGN CONDITIONS.

Outstand and state and all the	04.000 Dtu/b
Cooling load — total capacity	94 000 Btu/n
— sensible capacity	75 000 Btu/h
Outside air temperature (cooling)	95°F
Air entering indoor coil (cooling)	
wb	63 5° F
-01-	770 -
db	//-F
Air quantity (cfm)	
Pressure loss of ducts and	
diffusors (at 2600 afm)	0.45 in wa
diffusers (at 3600 cfm)	
Heating load (max)	65 000 Btu/h
Power supply (Volts-Phase-Hertz)	
I OWO Supply (VOIG I Hase Hell)	,50 0 00

#### II DETERMINE UNIT SIZE.

Select unit on cooling capacity

Enter the cooling capacity table at the given air quantity (3600 cfm) and evaporator entering wet-bulb (63 5° F). Read across the table for gross total capacity (TC) and gross sensible capacity (SHC), under the condenser entering air temperature (95° F). Since 63.5° F is between 62 and 67°F (in the table), the required values must be found by interpolation

From the table for the 559E120 at 63.5°F entering air (wet-bulb)

TC = 
$$98.6 + \frac{1.5}{5} (106.0 - 98.6) = 100.8 \text{ Btu/h}$$
  
SHC =  $98.4 - \frac{1.5}{5} (98.4 - 83.4) = 93.9 \text{ Btu/h}$   
kW =  $11.34 + \frac{1.5}{5} (11.78 - 11.34) = 11.5$ 

These gross capacities must now be adjusted downward to reflect the heat gained from the indoor fan motor To obtain the heat gained from the IFM (indoor fan motor), the total required static pressure must be calculated by adding all accessory and external pressure drops (See IV) Since heater pressure drop varies with the size of the heater, calculation of heater requirement should be made next.

### III HEATING REQUIREMENTS.

Enter the electric heating capacities table for 559E120 units and find that the medium-hi sized heater (19 7 kW) with 67 200 Btu/h most closely satisfies the heat requirement of 65 000 Btu/h The heating capacity must be adjusted upward for the heat gain of the indoor fan motor.

# IN ADD PRESSURE DROPS TO FIND INDOOR FAN MOTOR (IFM) kW AND HEAT.

At 3600 cfm indoor air.

The medium size heater pressure loss is ... 0 20 in wg The plenum pressure loss is ...... 0 18 in wg The pressure loss of connected ducts and diffusers ..... 0 45 in wg Sum (total external static pressure) is ..... 0.83 in wg

From the fan performance table, at 3600 cfm with 0 83 in. wg external static pressure requires 967 rpm, 1710 watts by interpolation. The heat equivalent of this is 3.41 Btu/h/watt x 1710 watts = 5834 Btu/h

# SELECTION PROCEDURE (with example) — ENGLISH (cont)

# V ADJUSTMENTS FOR IFM HEAT AND POWER INPUT.

COOLING.

Adjusted Total Capacity = TC - IFM heat

= 100 800 - 5834 = 94 966 Btu/h

Adjusted Sensible Capacity = SHC - IFM heat

= 93 900 - 5834 = 88 066 Btu/h

Adjusted Power Input

= kW\* + IFM power input

= 11 47 + 1.71 = 13 18 kW

\*kW power input from cooling capacity table at selected conditions

HEATING.

Adjusted Heating Capacity = 67 200 + 5834

= 73 034 Btu/h

Adjusted Power Input =  $kW^{**}$  + IFM power input

= 19 0 + 1.71 = 20 71 kW

\*\*Electric heater kW power input from heating capacity tables

VI CORRECTIONS TO SENSIBLE CAPACITY FOR DRY-BULB TEMPERATURE ABOVE OR BELOW 80°F. (See capacity table notes and table of sensible heat correction factors)

Since dry-bulb is below  $80^{\circ}$  F, sensible heat correction must be subtracted from SHC. With 3600 cfm and BF of 05, correction factor for  $77^{\circ}$  F is -3.11.

Corrected sensible heat capacity

= 88 066 - 3 11 (3600)

= 76 870 Btu/h

Therefore, the final net capacities are

Sensible = 76 870 Btu/h Total = 94 966 Btu/h

Thus, at the required design conditions, the 559E120 has adequate sensible capacity to satisfy the job conditions.

# **APPLICATION DATA**

#### **OPERATING LIMITS**

Units will operate at ambients 1 7°C (35°F) without head pressure control provided the evaporator entering air wetbulb temperature is equal to or greater than 11 7°C (53°F) and the supply air is not less than 1651 I/s (3500 cfm) Head pressure accessory will permit operation to ambients as low as -29°C (-20°F)

When return air ductwork systems are used, return side static pressures should be limited to 125 Pa (0.5 in wg)

Units without economizer are manual heat-to-cool changeover. Relay or equal must be used for automatic changeover Units with economizer must use automatic changeover thermostat.

#### INSTALLATION

A condensate trap that is a minimum of 100 millimeters (4 inches) deep must be field provided prior to start-up of cooling cycle.

At installers option, ductwork may be attached to curb on units with accessory plenum. Interior installation may proceed before unit is set in place on roof

Field-installed electric heaters require separate power entry

Plenum filter racks accommodate 51-millimeter (2-inch) filters for higher filtration efficiency and/or longer filter life

#### **ENGINEERS SPECIFICATION GUIDE**

#### **BASE UNIT**

FURNISH AND INSTALL a one-piece, air-to-air cooling unit Basic unit shall be completely assembled and tested, with a complete refrigerant charge, ready to operate Unit shall be designed for either slab or single-piece curb mount

Unit shall include provisions for electric heat

COOLING CAPACITY — Unit cooling capacity shall be a net capacity with indoor fan motor heat deducted and shall be \_\_\_\_\_total or greater, \_\_\_\_\_sensible or greater at conditions of \_\_\_\_\_cfm air entering indoor coil, \_\_\_\_\_dry-bulb, \_\_\_\_wet-bulb, and \_\_\_\_\_dry-bulb entering outdoor coil

HEATING CAPACITY — Heating capacity shall be a net capacity with indoor fan motor heat added and shall be \_\_\_\_\_or greater.

UNIT COMPRESSOR(S) shall be welded, fully hermetic with crankcase heater(s) and suitable vibration isolators. The standard unit shall be capable of operating to 1 7°C (35°F) OAT on cooling cycle

COILS — Indoor and outdoor coils shall be of nonferrous construction with aluminum plate fins mechanically bonded to seamless copper tubes with all joints brazed

FANS AND MOTORS — Indoor air fan shall be forward-curved, centrifugal, belt-drive type capable of delivering \_\_\_\_\_ at \_\_\_\_external static pressure Motor pulley shall be adjustable pitch Indoor fan motor shall be \_\_\_\_ with permanently lubricated bearings Outdoor fan shall be of the propeller type with direct-driven permanently lubricated motor of \_\_\_\_ or less. Fans shall discharge upward

UNIT CABINET — Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a baked enamel finish. Cabinet interior shall be insulated Cabinet panels shall be easily removable for service of all operating components. A condensate drain for the indoor coil shall be provided

CONTROLS — The unit shall be protected with low pressurestats, and current and temperature sensitive linebreak overload devices on each phase of the compressor motor

These devices shall be wired to the circuit to prevent compressor restart until reset at the thermostat The room thermostat shall contain an optional compressor malfunction light designed to light if any of the safety controls mentioned above trip out the compressor through the lock-out circuit Two-compressor units shall have separate and independent refrigeration and control systems designed to allow for standby operation of either compressor if one is locked out

UNIT ELECTRICAL CONNECTIONS — Cabinet shall contain suitable openings for routing of all utility connections. The base unit shall contain a terminal strip in the control compartment to allow for connection of room thermostat and field-installed accessories.

MAXIMUM DIMENSIONS — Width \_\_\_\_\_, depth \_\_\_\_\_, height \_\_\_\_\_

#### **ACCESSORIES**

The following field-installed accessories (accessory) shall be provided

ELECTRIC RESISTANCE HEAT — Electric resistance heaters shall be supplied to offset building heat loss. Heaters shall consist of open wire nichrome elements with controls necessary for operation. Safety controls shall include primary overtemperature and overcurrent protection. Heaters shall be available in 4 heat-to-cool ratios.

ROOF CURB shall be of the same manufacture as unit and shall include an insulated panel under compressor section to prevent condensation forming on the bottom Dimensions shall allow for easy duct location and connection to roof curb prior to unit placement.

ECONOMIZER CONTROL shall include return air and outdoor air dampers, outdoor air filter and hood and fully modulating electric control system with outdoor air thermostat and capable of introducing up to 100% outdoor air. The control changeover from mechanical cooling to economizer operation shall be fully automatic through an adjustable outdoor air changeover thermostat.

DOWNTURN PLENUM shall be designed to attach easily to the basic unit to direct airflow downward. Plenum shall provide for a weatherproof opening for ductwork assembly, and shall include an outdoor air inlet

THERMOSTAT AND SUBBASE shall provide staged heating and cooling, manual or automatic changeover and fan control

OUTDOOR AIR THERMOSTATS shall provide for staging of the electric resistance heat according to outdoor temperature. Thermostats shall be wired into the electric heater contactors and shall have an adjustable set point to provide economical resistance heat staging.

ANTI-RECYCLE CONTROL shall prevent compressor short cycling as a result of a rapid change in thermostat setting, and shall automatically prevent compressor restart at least 5 minutes after shutdown

HEAD PRESSURE CONTROL shall provide solid-state outdoor fan speed control to maintain head pressure down to -29° C (-20 F) outdoor air temperature on cooling cycle

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bryant

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS