bryant

Bryant Air Conditioning

Indianapolis, IN City of Industry, CA

GAS HEATING! ELECTRIC COOLING ROOFTOP UNIT

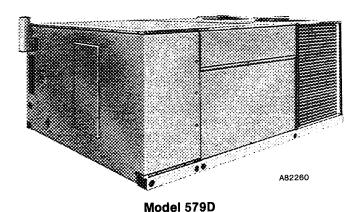


Models 585E Sizes 090146

& 090203

A82232

Model 585E



Models 579D and 585E Gas Heating/Electric Cooling Rooftop Units are single-packaged units designed for the commercial market. Both models present a low profile and do not distract from the architecture of the building.

MODEL 585E is designed for horizontal side-by-side duct connections and can be installed at ground level or on a roof. The 585E is ideal for the replacement market.

MODEL 579D has the supply- and return-air openings on the bottom of the unit. The 579D is designed for rooftop installation and mounts on a factory-supplied, roof-mounting curb. The ductwork connects to the curb so that the air ducts and curb can be installed before unit arrival.

FEATURES

FACTORY-ASSEMBLED PACKAGE is a compact, fully selfcontained, combination gas heating/electric cooling unit that is prewired, prepiped, and precharged for minimum installation time and expense.

TWO RUGGED, HIGH-EFFICIENCY COMPRESSORS provide two-stage cooling to conserve energy by shutting down one compressor during light cooling loads. These compressors are electrically and mechanically independent; therefore, cooling is still available even if one stage fails.

LOW-PRESSURE PROTECTION is standard.

TWO-STAGE HEATING AND TWO-STAGE COOLING reduces equipment cycling and gives better control of the conditioned space temperature and humidity.

INTERMITTENT SPARK IGNITION that lights pilot only on a "call for heat" by the indoor thermostat. An LP (propane) conversion kit is available for both models.

HIGH-EFFICIENCY, FOUR-PASS HEAT EXCHANGER-The four-pass tubular heat exchanger design provides maximum heat transfer to the heated area.

POSITIVE-PRESSURE COMBUSTION AND MECHANICAL FLUE GAS VENTING are unaffected by adverse wind conditions.

CRANKCASE HEATERS AND FILTER-DRIERS are standard on both models.

WEATHERIZED CABINETS are constructed of heavy-duty, phosphated, zinc-coated steel and finished with corrosionresistant, modified alkyd, fade-resistant, baked Malibu Beige enamel. Interior surfaces of the evaporator/heat exchanger compartment are insulated to help keep the conditioned air from being affected by the outdoor ambient temperature.

VERTICAL CONDENSER AIR DISCHARGE prevents recirculation of hot condenser air and reduces operating noise level.

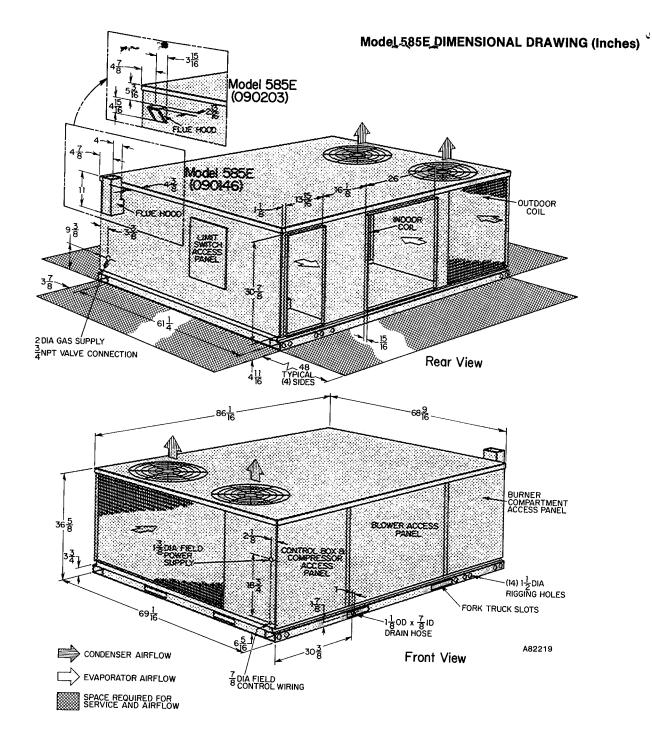
COMPRESSOR ISOLATION MOUNTING eliminates vibration (noise) transmission to building structure.

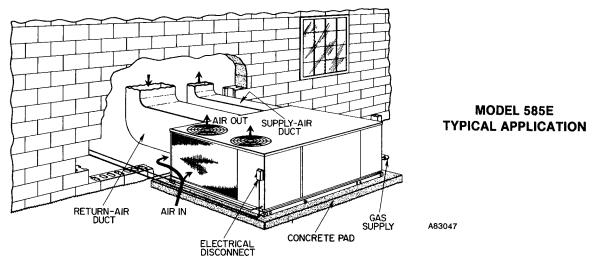
CORROSION-RESISTANT HEAT EXCHANGERS AND BURN-ERS for longer life.

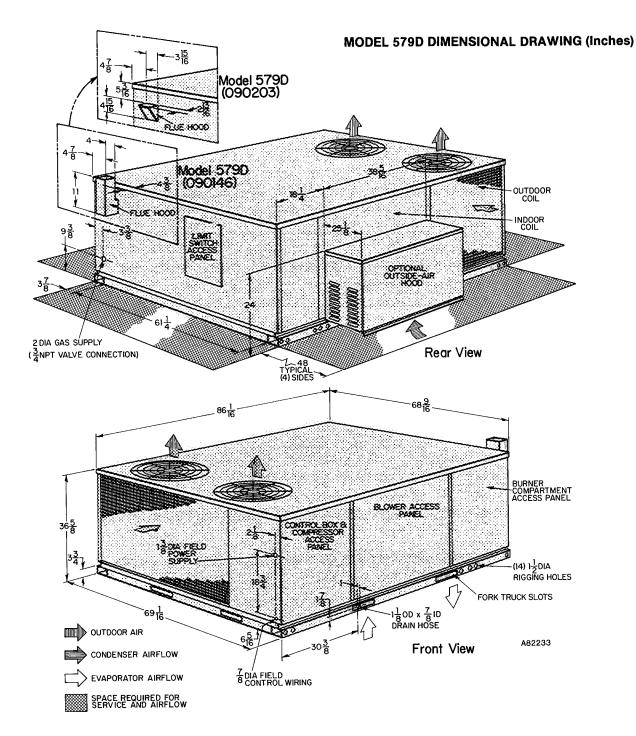
FURNACE SAFETY CONTROLS shut off gas in event of pilot outage, combustion-air failure, overheating of heat exchangers, or flame rollout.

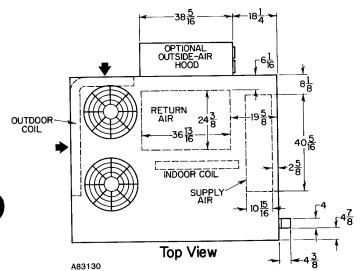
PROTECTION AS REQUIRED BY N.E.C. for fan motors.

COMPROTEC®-standard on both models, prevents compressor rapid-cycling.





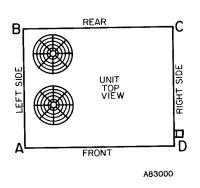




UNIT OPERATING AND CORNER WEIGHTS

Operating	 	Corner	Welghts	
Weight	Α	В	С	D
1180*	367	244	228	341

^{*}Add 60 pounds to unit if equipped with modulating economizer



MODEL	585EP090146	585EE090146	579DP090146	579DE090146		
SERIES RATINGS & PERFORMANCE	С	C	C	C		
Cooling				<u> </u>		
Total Capacity (Btuh)*	92	,000	92	000		
Capacity Reduction		0%		0%		
Rated Airflow (Ft³/Min)* Rated ESP (in. wc)*		000 .25		000 25		
EER		3.2		.2		
ARI Noise Rating†		0.0		.0		
Heating 1 st-Stage Input (Btuh)						
1st-Stage Output (Btuh)		i,000 i,600		,000 ,600		
1st- & 2nd-Stage Input (Btuh)		5,000		,000		
1st- & 2nd-Stage Output (Btuh)		,800	116	,800		
Temperature Rise Range (°F) Thermal Efficiency (%)		-50		-50		
Certified ESP (In. wc)		.1		.1		
ELECTRICAL				.1		
Unit Volts—Phase (60 Hz)	208/230—3	460-3	208/230—3	460-3		
Operating Voltage Range Unit Full Load Amps	187—253 42.7	414—506 20.7	187-253	414-506		
Min Ampacity for Wire Sizing	42.7	23.7	42.7 48	20.7		
Min Wire Size (75°C Copper)‡	6	10	6	10		
Max Wire Length (Ft)‡	140	255	140	255		
Max Fuse Size (Amps) Control Transformer, 24-V (VA)	60	25	60	25		
COMPRESSOR, REFRIGERANT, & CONTROLS	75	75	75	75		
Compressor No. 1 (Type—RPM)	Hermetic-3500	Hermetic—3500	Hermetic — 3500	Hermetic—3500		
Rated Load Amps	15.2	7.2	15.2	7.2		
Locked Rotor Amps	80	35	80	35		
Compressor No. 2 (Type—RPM) Rated Load Amps	Hermetic—3500	Hermetic—3500	Hermetic—3500	Hermetic-3500		
Locked Rotor Amps	15.2 80	7.2 35	15.2 80	7.2		
Compressor Protection		Linebreak		inebreak		
Low-Pressure Switch (PSIG)	Cutout 27	, Reset 67		, Reset 67		
Low-Ambient Operation (°F) Refrigerant Charge	4	15	4	5		
Compressor No. 1 Circuit	S inc	3 0z	0.11-	0		
Compressor No. 2 Circuit		3 0Z		3 oz 3 oz		
INDOOR COIL	3 130	. 0 02	0 103			
Rows & Fins per Inch Coil Face Area (Sg Ft)		15		15		
Refrigerant Metering Device		.9 y Tubes		.9		
INDOOR BLOWER & MOTOR	Саріна	y rubes	Capillar	y Tubes		
Wheel Dia & Width (In.)	12:	x 12	12:	(12		
Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.)		3/4	5 &			
Required Filter Area (Sq In.)**	No.	one	(2) 16 x 20 x 2,	(2) 20 x 20 x 2		
Disposable Type	1 11	52		_		
Cleanable- or High-Capacity Type		36		-		
Blower Motor HP & SF	1.5 & 1.3	1.5 & 1.3	1.5 & 1.3	1.5 & 1.3		
Speed (Nominal RPM) Full Load Amps	1725	1725	1725	1725		
Motor Pulley Pitch Dia & Bore (In.)	6.5	3.3 4 & 5/8	6.5	3.3		
Belt Length & Width (In.)		ength & 1/2		anath & 1/2		
OUTDOOR COIL						
Rows & Fins per Inch Coil Face Area (Sq Ft)		14		14		
OUTDOOR FAN & MOTOR		5.6	15	.6		
Outdoor Fans, NoDia	2-22	2-22	2-22	2-22		
Motor HP	1/2	1/2	1/2	1/2		
Type—Speed Full Load Amps	PSC-1075	PSC-1075	PSC-1075	PSC-1075		
GAS CONTROLS & GENERAL DATA	2.9 Each	1.5 Each	2.9 Each	1.5 Each		
Burners (No.—Type)	4—ir	nshot	4—ir	ishot		
Burner Orifices (No.—Drill Size), Natural	4-	-33	4-	33		
Burner Orifices (No.—Drill Size), Propane		-50	4-			
Main Gas Valve Pilot (Non-100%)		dundant er Tube	24-V Redundant			
Pilot Ignition		ark	Crossover Tube Spark			
High Limit), Reset 90	Spark Cutout 110, Reset 90			
Flame Rollout		Reset	Manual Reset			
Fan Control Manual Shutoff	Delay Port of C		Delay Relay			
*Rated in accordance with ARI Standard 210-8	Part of G	as valve	Part of Gas Valve			

^{*}Rated in accordance with ARI Standard 210-81







[†]Rated in accordance with ARI Standard 270-82
†Rated in accordance with ARI Standard 270-82
‡If other than 75°C copper wire is used, determine size from unit ampacity and the National Electrical Code Voltage drop of wire must be less than 2% of unit rated voltage. Maximum wire length shown is for one way along the wire path from unit to electrical service panel
**Model 585E only Model 579D is equipped with two 20- x 20- x 2-inch and two 16- x 20- x 2-inch filters

	585EP090203	585EE090203	579DP090203	579DE090203			
DEL	C	C	C	C			
RIES ATINGS & PERFORMANCE							
oling			00.0	00			
Total Capacity (Btuh)*	92,00		92,0 50°				
Capacity Reduction	50%		300				
Rated Airflow (Ft³/Min)*	300		0.2				
Rated ESP (In. wc)*	0.29		8.2				
EER	8.2		9.0				
ARI Noise Rating†	9.0	<u> </u>	<u> </u>	·			
eating	125,0	₂₀₀	125,	000			
1 st-Stage Input (Btuh)	92,5			500			
1 st-Stage Output (Btuh)	203,0		203,	000			
1st- & 2nd-Stage Input (Btuh)	160,3		160,	370			
1st- & 2nd-Stage Output (Btuh)	35-		35	-65			
Temperature Rise Range (°F)	79		79	9			
Thermal Efficiency (%)	- 		1.	1			
Certified ESP (In. wc)			4				
LECTRICAL nit Volts—Phase (60 Hz)	208/230-3	460-3	208/230-3	460-3			
	187-253	414-506	187-253	414-506			
perating Voltage Range	42.7	20.7	42.7	20.7			
nit Full Load Amps in Ampacity for Wire Sizing	48	23	48	23			
in Ampacity for Wire Sizing in Wire Size (75°C Copper)‡	6	10	6	10			
ax Wire Length (Ft)‡	140	255	140	255			
lax Fuse Size (Amps)	60	25	60	25			
ontrol Transformer, 24-V (VA)	75	75	75	75			
COMPRESSOR, REFRIGERANT, & CONTROLS				0.500			
Compressor No. 1 (Type—RPM)	Hermetic-3500	Hermetic-3500	Hermetic—3500	Hermetic—3500			
Rated Load Amps	15.2	7.2	15.2	7.2			
Locked Rotor Amps	80	35	80	35			
Compressor No. 2 (Type—RPM)	Hermetic-3500	Hermetic-3500	Hermetic-3500	Hermetic—3500			
Rated Load Amps	15.2	7.2	15.2	7.2			
Locked Rotor Amps	80	35	80	35			
Compressor Protection	Internal L	inebreak		Linebreak			
ow-Pressure Switch (PSIG)	Cutout 27	, Reset 67		, Reset 67			
ow-Ambient Operation (°F)	4	5	4	15			
Refrigerant Charge			1	•			
Compressor No. 1 Circuit	6 lbs	3 oz		s 3 oz			
Compressor No. 2 Circuit	6 lbs	3 oz	6 lbs	s 3 oz			
INDOOR COIL			0.045				
Rows & Fins per Inch		15		<u>R 15</u>			
Coil Face Area (Sq Ft)		.9		7.9			
Refrigerant Metering Device		y Tubes	Capillary Tubes				
INDOOR BLOWER & MOTOR	Capillar			10 410			
INDUOR BLOWER & MOTOR			12	v 10			
Wheel Dia & Width (In.)	12	x 12		x 12			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.)	12 5 8	x 12 x 3/4	5.8	§ 3/4			
Wheel Dia & Width (In.)	12 5 8	x 12	5.8				
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.)	12 5 & No	x 12 x 3/4 one	5.8	§ 3/4			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)**	12 5 & No	x 12 x 3/4 onne	5 6 (2) 16 × 20 × 2	3: 3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.)	12 5 & No 11	x 12 x 3/4 one 152	5 8 (2) 16 × 20 × 2	3; 3/4 2, (2) 20 × 20 × 2 —			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type	12 5 & No 11 9 1.5 & 1.3	x 12 x 3/4 one 152 36 1.5 & 1.3	5 & (2) 16 × 20 × 2	& 3/4 2, (2) 20 × 20 × 2 — — — — 1.5 & 1.3			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type	12 5 & No 11 9 1.5 & 1.3 1725	x 12 x 3/4 one 152 36 1.5 & 1.3 1725	1.5 & 1.3 1725	3 3/4 2, (2) 20 × 20 × 2 — — — — — — — — — — — — — — — — 1.5 & 1.3			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps	12 5 8 No 11 9 1.5 & 1.3 1725 6.5	x 12 x 3/4 one 152 36 1.5 & 1.3 1725 3.3	1.5 & 1.3 1725 6.5	3.3/4 2, (2) 20 × 20 × 2 - - 1.5 & 1.3 1725 3.3			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Fitters (In.) Required Fitter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.)	12 5 8 No 11 9 1.5 & 1.3 1725 6.5	x 12 x 3/4 one 152 36 1.5 & 1.3 1725 3.3 3.4 & 5/8	1.5 & 1.3 1725 6.5	3.3/4 2, (2) 20 × 20 × 2 - - 1.5 & 1.3 1725 3.4 & 5/8			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Fitters (In.) Required Fitter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.)	12 5 8 No 11 9 1.5 & 1.3 1725 6.5	x 12 x 3/4 one 152 36 1.5 & 1.3 1725 3.3	1.5 & 1.3 1725 6.5	3.3/4 2, (2) 20 × 20 × 2 - - 1.5 & 1.3 1725 3.3			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4-3 46 Pitch L	x 12 x 3/4 onne 152 136 1.5 & 1.3 1725 3.3 4.4 & 5/8 ength & 1/2	1.5 & 1.3 1725 6.5 2.4—3 46 Pitch I	3.3/4 2, (2) 20 × 20 × 2 - - 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq in)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (in.) Belt Length & Width (in.) OUTDOOR COIL Rows & Fins per Inch	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4-3 46 Pitch L	x 12 x 3/4 one 152 136 1.5 & 1.3 1725 3.3 1.4 & 5/8 ength & 1/2	1.5 & 1.3 1725 6.5 2.4—3	3.3/4 2, (2) 20 × 20 × 2 ———————————————————————————————————			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COLL Rows & Fins per Inch Coil Face Area (Sq Ft)	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4-3 46 Pitch L	x 12 x 3/4 onne 152 136 1.5 & 1.3 1725 3.3 4.4 & 5/8 ength & 1/2	1.5 & 1.3 1725 6.5 2.4—3	3.3/4 2, (2) 20 × 20 × 2 - - 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch L	x 12 x 3/4 one 152 36 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6	1.5 & 1.3 1725 6.5 2.4—3 46 Pitch I	3.3/4 2, (2) 20 × 20 × 2 ———————————————————————————————————			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch L	x 12 x 3/4 pone 152 136 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch I	2, (2) 20 × 20 × 2 - 1.5 & 1.3 1725 3.4 & 5/8 ength & 1/2 & 14			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch L	x 12 x 3/4 pone 152 136 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2	1.5 & 1.3 1.725 6.5 2.4—3 46 Pitch I	2, (2) 20 × 20 × 2 			
Mheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4-3 46 Pitch L	x 12 x 3/4 pone 152 136 1.5 & 1.3 1725 3.3 4.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch I	3.3/4 2, (2) 20 × 20 × 2 			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch L	x 12 x 3/4 pone 152 136 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch I	3.3/4 2, (2) 20 × 20 × 2 			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch L 2 1 2—22 1/2 PSC—1075 2.9 Each	x 12 x 3/4 one 152 336 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch I	3.3/4 2, (2) 20 × 20 × 2 			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type)	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch L 2 0 1 2 - 22 1/2 PSC-1075 2.9 Each	x 12 x 3/4 one 152 336 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch I 2 2 1/2 PSC-1075 2.9 Each	3.3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burner S (No.—Type) Burner Orifices (No.—Drill Size), Natural	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch L 2 -22 1/2 PSC—1075 2.9 Each	x 12 x 3/4 one 152 136 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch I	3.3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burner (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Natural	12 5 8 No. 11 9 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch L 2 2 1 2—22 1/2 PSC—1075 2.9 Each	x 12 x 3/4 pone 152 136 1.5 & 1.3 1725 3.3 4.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4–3 46 Pitch I 2 2 2–22 1/2 PSC-1075 2.9 Each	3.3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve	12 5 8 No. 11 9 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch L 2 2 12 PSC—1075 2.9 Each 4 4 4 24-V F	x 12 x 3/4 pone 152 136 1.5 & 1.3 1725 3.3 4.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch I 2 2 2-22 1/2 PSC-1075 2.9 Each	3.3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve Pilot (Non-100%)	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch L 2 1 2—22 1/2 PSC—1075 2.9 Each	x 12 x 3/4 one 152 36 1.5 & 1.3 1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each -Inshot -29 -45 Redundant over Tube	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch I 2 2–22 1/2 PSC-1075 2.9 Each	3.3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor FAN, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve Pilot (Non-10%) Pilot Ignition	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4-3 46 Pitch L 20 11 2-22 1/2 PSC-1075 2.9 Each 4- 4 4 24-V F Crosss	x 12 x 3/4 one 152 336 1.5 & 1.3 1725 3.3 1.4 & 5/8 ength & 1/2 & 14 PSC-1075 1.5 Each Inshot -29 -45 edundant over Tube	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch I 2 2 1/2 PSC-1075 2.9 Each	3.3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (in.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve Pilot (Non-100%) Pilot (Ignition High Limit	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4-3 46 Pitch L 2 6 1 2-22 1/2 PSC-1075 2.9 Each 4- 4 24-V F Crosso S Cutout 17	x 12 x 3/4 cone 152 136 1.5 & 1.3 1725 3.3 1.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each -Inshot -29 -45 Redundant over Tube spark 70, Reset 140	1.5 & 1.3 1725 6.5 2.4—3 46 Pitch I 2 1/2 PSC-1075 2.9 Each 4-4 24-V Gross Cutout 17	3.3/4 2, (2) 20 × 20 × 2			
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.) Factory-Supplied Filters (In.) Required Filter Area (Sq In)** Disposable Type Cleanable- or High-Capacity Type Blower Motor HP & SF Speed (Nominal RPM) Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve Pilot (Non-100%) Pilot Ignition	12 5 8 No 11 9 1.5 & 1.3 1725 6.5 2.4-3 46 Pitch L 2 6 1 2-22 1/2 PSC-1075 2.9 Each 4- 4 4 24-V F Crosso S Cutout 17 Manu	x 12 x 3/4 one 152 336 1.5 & 1.3 1725 3.3 1.4 & 5/8 ength & 1/2 & 14 PSC-1075 1.5 Each Inshot -29 -45 edundant over Tube	1.5 & 1.3 1.5 & 1.3 1725 6.5 2.4—3 46 Pitch I 2 2–22 1/2 PSC-1075 2.9 Each 4–4 4–4 4–4 24-V Cross Cutout 17 Mann	3.3/4 2, (2) 20 × 20 × 2			

^{*}Rated in accordance with ARI Standard 210-81

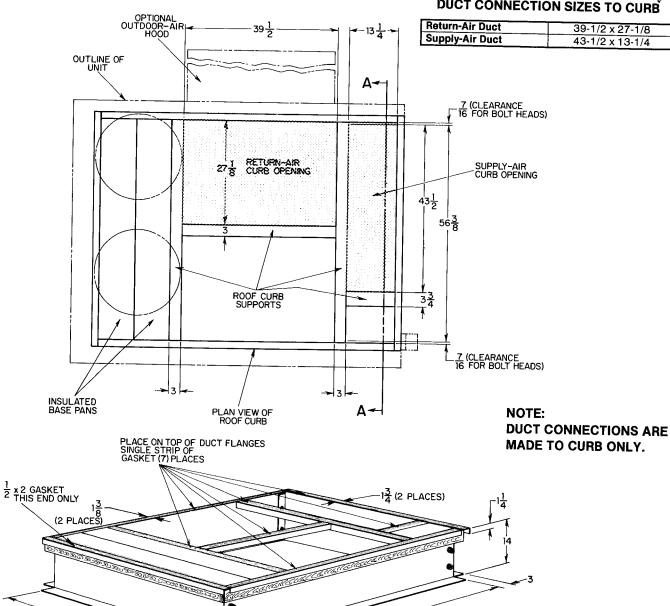
[†]Rated in accordance with ARI Standard 270-82

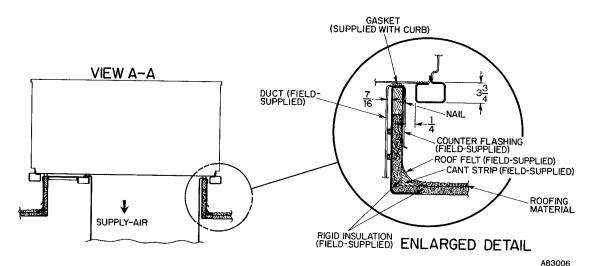
[†] Inated in accordance with Ani Standard 270-52

‡ If other than 75°C copper wire is used, determine size from unit ampacity and the National Electrical Code Voltage drop of wire must be less than 2% of unit rated voltage Maximum wire length shown is for one way along the wire path from unit to electrical service panel

**Model 585E only Model 579D is equipped with two 20- x 20- x 2-inch and two 16- x 20- x 2-inch filters

DUCT CONNECTION SIZES TO CURB





MODEL 579D ROOF-MOUNTING CURB P/N 307175-106

DETAILED NET COOLING CAPACITIES

Evapora	itor									CONDENS	OR AIR T	EMPERAT	URE (° F)							
Air				85					95					105					115		
Ft ³		Capa	icity			Total	Capa	city			Total	Capa	icity			Total	Capa	acity			Total
per	°F	MB	tuh		1	Sys	MB	tuh			Sys	MB	tuh			Sys	MB	tuh	Ì		Sys
Min	WB	Total	Sens	LOB	LWB	KW	Total	Sens	LDB	LWB	KW	Total	Sens	LDB	LWB	KW	Total	Sens	LDB	LWB	KW
MODEL	S 585E	& 579)																		
2350	71	96 8	50 4	60 2	58 7	10 3	95 4	50 3	60 3	58 9	111	91 0	48 8	60 9	59 5	11 7	80 9	45 1	62 3	61 0	12 4
	67	93 2	62 1	55 6	54 0	10 2	89 2	60 9	56 1	54 6	108	80 0	57 1	57 6	56 0	11 4	69 5	52 9	59 3	57 6	12 0
	63	87.2	72.7	51.5	49.7	10.0	79.0	69.0	52.9	51.1	10.6	69.0	64.3	54.8	52.7	11.2	58.8	58.7	57.0	54.4	11.8
2500	71	97 4	51 3	61 1	59.5	10 4	96 2	51.4	61 1	59 6	11 2	91 9	50 0	61 6	60 2	11 8	81 8	46.3	62 9	61 5	12 5
	67	93 5	63 4	56 6	54.8	10 3	90 2	62.6	56.9	55 3	10 9	81 2	59 0	58 2	56.6	11 5	70 5	54.8	59 8	58 1	12 1
	63	88.0	74.9	52.4	50.4	10.1	80.4	71.5	53.6	51.6	10.7	70.3	66.7	55.4	53.2	11.3	60.3	60.3	57.8	54.7	11.9
2750	71	97 2	52 1	62 5	60 7	10 5	97 2	53 0	62 2	60 7	11 3	93 1	51 8	62 6	61 2	12 0	83 5	48 5	63 8	62 3	12 6
	67	94 0	65.5	58 0	56 0	10 4	91 2	65 3	58 1	56 3	11 1	83 0	62 1	59 2	57 4	11 7	72 1	57 9	60 6	58 8	12 3
	63	89.2	78.3	53.8	51.5	10.2	82.6	75.5	54.7	52.5	10.8	72.5	70.4	56.4	53.9	11.4	64.0	64.0	58.6	55.0	12.1
3000	71	98 1	53.5	63 6	61 5	10.7	97 0	54 1	63 4	61 6	11 4	94 0	53 6	63 5	62 0	12 2	84.8	50 5	64 5	62 9	12 8
	67	95 1	68 1	59 1	56 9	10.6	92 0	67.8	59 2	57 2	11 2	84 6	65 2	60 0	58 1	11 8	73.5	60 9	61 3	59 3	12 4
	63	90.3	81.5	55.0	52.4	10.4	84.5	79.2	55.7	53.2	11.0	74.4	73.6	57.4	54.5	11.6	67.4	67.4	59.3	55.3	12.2
3250	71	98 9	55 0	64 4	62.2	10 8	97 5	55 6	64 2	62 4	11 6	94 4	55 1	64 4	62 7	12 3	86 2	52 5	65 1	63 5	12 9
	67	95 1	69 8	60 2	57 7	10 6	92 8	70 3	60 1	58 0	11 4	86 0	68 1	60 7	58.7	12 0	74 9	63 7	61 9	59 8	12 6
	63	91.1	84.4	56.1	53.2	10.5	86.2	82.7	56.6	53.8	11.2	76.3	76.3	58.4	54.9	11.8	69.0	69.0	60.4	55.8	12.4
3500	71	98 2	55 4	65 4	63 0	10 9	97 9	56 9	65 0	63 0	11 7	94 4	56 4	65 1	63 3	12 4	87 3	54 5	65 7	63 9	13 1
	67	95 9	72 2	61 0	58 4	10 8	93 4	72 8	60 8	58 6	11 5	87 1	70 9	61 3	59 2	12 1	76 1	66 4	62 5	60 3	12 7
	63	91.8	87.0	57.1	53.9	10.7	88.0	85.9	57.4	54.3	11.3	78.6	78.6	59.3	55.3	12.0	70.8	70.8	61.3	56.1	12.6

NOTES:

- 1 Sensible heat capacities shown are based on 80°F entering air at the indoor coil
- 2 Direct interpolation is permissible Do not extrapolate

- 3 To interpolate:
 - (a) below 80°F DB, subtract 805 Btuh per 1000 Ft³/Min for each degree below 80°F from the listed sensible capacity
 - (b) **above 80° DB**, add 804 Btuh per 1000 Ft³/Min for each degree above 80° F to the listed sensible capacity

MODEL 585E AIR DELIVERY AT INDICATED E.S.P. (In. wc)—WITH WET COIL AND NO AIR FILTERS

	T T					1.5	-HP Moto	r, 1.3 Sei	rvice Fac	lor, 1.95	Max BHP	, 850-1	200-RPM	Drive Ra	nge					
Airflow	0.	.1	0.	.2	0.	.3	0	.4	0	.5	0.	.6	6.	.7	0	.8	0.	9	1	.0
(Ft³/Min)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP
2350	300	0.68	735	0.71	785	0.27	795	0.81	820	0.84	850	0.90	885	0.96	920	1.01	940	1.05	970	1.11
2500	730	9.76	755	9.86	785	0.84	810	88,0	840	0.93	870	0.99	905	1.02	935	1.09	970	1.16	1005	1.23
2750	780	0.90	805	0.94	830	0.98	860	1.03	890	1.08	920	1.12	950	1.19	985	1.26	1020	1.32	1035	1.50
3000	830	1.08	865	1.13	885	1.17	920	1.22	945	1.27	960	1.41	988	1.56	1025	1.67	1050	1.73	1075	1.82
3250	885	1.27	905	1.51	940	1.58	970	1.70	1.005	1.81	1030	1.87	1060	1.94	-	-	}] -	-
3500	935	1.71	970	1.82	1010	1.89		-		-	-	-	-					-	-	-

- E S P. = External Static Pressure
- RPM = Blower fan revolutions per minute
- BHP = Brake horsepower
- NOTES: 1. Shaded portions of table are beyond standard drive range or motor horsepower at rated voltage.
 - See "Motor Pulley Settings" table for pulley setting to obtain required blower fan RPM for desired airflow
 Pressure drop of field-supplied filters must be included in duct system external static pressure

MODEL 579D AIR DELIVERY AT INDICATED E.S.P. (In. wc)—WITH WET COIL AND STANDARD AIR FILTERS

	1				-	1.5	-HP Moto	r, 1.3 Se	rvice Fac	tor, 1.95	Max BHP	, 850-1	200-RPM	Drive Ra	nge					
Airflow	0	.1	0	.2	0	.3	0	.4	0	.5	0.	.6	0.	7	0	.8	0.	9	1.	.0
(Ft³/Min)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2350	710	3.69	750	0.73	783	0.89	810	0.84	835	0.89	865	0.93	895	0.98	935	1.03	950	1.08	985	1.15
2500	745	0.78	770	0.83	800	0.87	825	0.92	855	0.97	885	1.00	920	1.05	950	1.11	985	1.18	1020	1.25
2750	795	0.93	620	0,97	845	1.01	880	1.07	910	1.11	940	1.17	970	1.24	1005	1.31	1035	1.38	1040	1.57
3000	850	1.11	885	1.17	910	1.24	935	1.30	960	1.50	990	1.58	1015	1.64	1047	1.74	1075	1.82	1080	1.91
3250	910	1.50	940	1.60	970	1.68	995	1.70	1025	1.85	1060	1.95	-	·		~			~	
3500	935	1.71	970	1.82	1010	1.89			- ·	}		-	-			~	~	~-	-	-

- E S.P = External Static Pressure.
- RPM = Blower fan revolutions per minute
- BHP = Brake horsepower
- NOTES: 1. Shaded portions of table are beyond standard drive range or motor horsepower at rated voltage
 - 2 See "Motor Pulley Settings" table for pulley setting to obtain required blower fan RPM for desired airflow
 - 3 See "Accessories Pressure Drops" table for economizer and wet coil pressure drops

ACCESSORIES & OPTIONAL EQUIPMENT

Used With Model	Kit Description	Kit P/N
579D	Roof Mounting Curb	307175-106
579D	Manual Outside-Air Damper*	307178-101
579D	Two-Position Damper Motor†	307180-101
579D	Modulating Economizer‡	307182-101
579D & 585E	LP-Conversion Kit (090203)	307188-102
579D & 585E	LP-Conversion Kit (090146)	307188-101

- *Provides up to 35% outside air
- †For use with manual outside-air damper
- ‡Includes rain hood and relief-air damper.

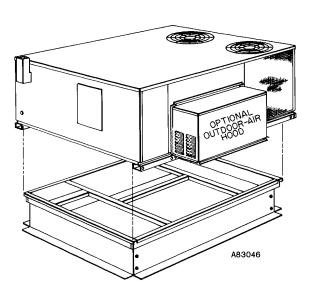
ACCESSORIES PRESSURE DROPS

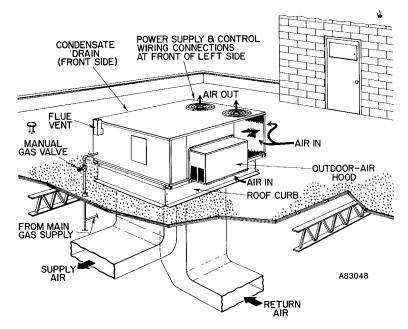
Airflow (Ft³/Min)	Economizer PD (in. wc)	Wet Coll PD (In. wc)
2350	0.012	0.038
2500	0.014	0.042
2750	0.018	0.052
3000	0.020	0.062
3250	0.024	0.072
3500	0.028	0.082

FAN RPM AT MOTOR PULLEY SETTINGS

Motor Pulley	Blower
Turns Open	Fan RPM
0	1200
1/2	1165
1	1130
1-1/2	1095
2	1060
2-1/2	1025
3	990
3-1/2	955
4	920
4-1/2	885
5	850

MODEL 579D—TYPICAL APPLICATION





ENGINEER'S SPECIFICATION GUIDE

GENERAL: Furnish and install a self-contained electric cooling/ gas heating Model 585E Rooftop Unit with horizontal supply- and return-air connections, or install a Model 579D mounted on a full perimeter factory-supplied curb with supply- and return-air ducts connected within the curb. Holes shall be provided in unit baserails for rigging and lifting operations. Units shall be shipped fully charged with oil and R-22 refrigerant. Unit design shall be A.G.A. certified and labeled accordingly.

COOLING CAPACITY: Total net cooling capacity of the unit shall be _______Btuh or greater, and sensible capacity shall be _______Btuh or greater at conditions of ______Ft³/Min evaporator air entering unit at ______°F dry bulb, _____°F wet bulb and condenser entering air of ______°F dry bulb. Total power consumption shall not exceed ______KWH. The EER at design conditions shall be a minimum of ______Btuh/watt. The unit shall be capable of cooling operation down to 45°F. Two-stage cooling shall be provided.

HEATING CAPACITY: Total heating capacity of the unit shall be ______Btuh maximum input. First-stage heating input shall be ______Btuh.

CABINET: The cabinet shall be constructed of heavy-gauge zinc-coated galvanized steel with Malibu Beige baked enamel finish. Unit shall be capable of firing natural (propane) gas as certified by A.G.A.

COMPRESSORS: Both compressors shall be of the welded, fully hermetic type with crankcase heaters and suitable vibration isolators. A separate refrigerant circuit shall be provided for each compressor.

CONDENSER SECTION: The condenser coil shall be constructed of aluminum plate fins mechanically bonded to seamless copper tubes. The condenser fans shall be direct-driven propeller type and mounted for vertical air discharge.

EVAPORATOR SECTION: The evaporator coil shall be constructed of aluminum plate fins mechanically bonded to seamless copper tubes. The evaporator fan shall be of the forward curved centrifugal type, belt driven. Adjustment of airflow shall be accomplished by means of an adjustable pitch pulley.

GAS HEATING SECTION: The unit shall be equipped with an aluminized steel, 4-pass tubular heat exchanger. Gas controls shall include a two-stage redundant gas valve/regulator, an intermittent pilot ignition system, high-limit switch, and a time-delay neating relay. Combustion air shall be induced by a power venting fan capable of handling 100% of flue gas products. The power venter shall include a centrifugal end switch to prove operation of the power venter fan before allowing ignition.

CONTROL CIRCUIT: The unit control panel shall be prewired in the unit casing—furnished with a 24-V control transformer, low-pressure switches, compressor, condenser, and evaporator fan motor contactors, as well as other protective devices.

ADDITIONAL EQUIPMENT (MODEL 579D): A full roof curb shall be provided. Curb design shall provide for connection of ductwork to the curb before unit placement.

A manual outside-air damper, complete with birdscreen, shall be furnished for field attachment.

An economizer control shall be factory-assembled and installed in the unit. The economizer control shall maintain a fixed supply-air temperature during the "free" cooling operation by providing for full modulation of the operable outside- and return-air dampers. The package shall be complete with necessary dampers, linkage, and spring-return modulating damper motor. The economizer controls shall include an enthalpy control capable of controlling the dampers by measuring the heat content of the outside air.

APPROVALS: The unit shall be A.G.A. certified as an electric cooling/gas heating outdoor unit. All wiring shall be in compliance with N E.C. The unit shall be certified by ARI for cooling capacity and noise ratings.

Bryant
Air Conditioning

BDP
Indianapolis, IN
City of Industry, CA

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS



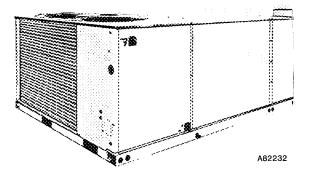
Day&Night Air Conditioning

Indianapolis, IN City of Industry, CA

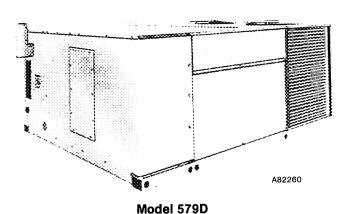
GAS HEATING/ ELECTRIC COOLING ROOFTOP UNIT

Models 585E & 579D

Sizes 090146 & 890203



Model 585E



Models 579D and 585E Gas Heating/Electric Cooling Rooftop Units are single-packaged units designed for the commercial market. Both models present a low profile and do not distract from the architecture of the building.

MODEL 585E is designed for horizontal side-by-side duct connections and can be installed at ground level or on a roof The 585E is ideal for the replacement market.

MODEL 579D has the supply- and return-air openings on the bottom of the unit. The 579D is designed for rooftop installation and mounts on a factory-supplied, roof-mounting curb. The ductwork connects to the curb so that the air ducts and curb can be installed before unit arrival.

FEATURES

FACTORY-ASSEMBLED PACKAGE is a compact, fully self-contained, combination gas heating/electric cooling unit that is prewired, prepiped, and precharged for minimum installation time and expense.

TWO RUGGED, **HIGH-EFFICIENCY COMPRESSORS** provide two-stage cooling to conserve energy by shutting down one compressor during light cooling loads. These compressors are electrically and mechanically independent; therefore, cooling is still available even if one stage fails.

LOW-PRESSURE PROTECTION is standard

TWO-STAGE HEATING AND TWO-STAGE COOLING reduces equipment cycling and gives better control of the conditioned space temperature and humidity.

INTERMITTENT SPARK IGNITION that lights pilot only on a "call for heat" by the indoor thermostat An LP (propane) conversion kit is available for both models

HIGH-EFFICIENCY, FOUR-PASS HEAT EXCHANGER—The four-pass tubular heat exchanger design provides maximum heat transfer to the heated area.

POSITIVE-PRESSURE COMBUSTION AND MECHANICAL FLUE GAS VENTING are unaffected by adverse wind conditions

CRANKCASE HEATERS AND FILTER-DRIERS are standard on both models.

WEATHERIZED CABINETS are constructed of heavy-duty, phosphated, zinc-coated steel and finished with corrosion-resistant, modified alkyd, fade-resistant, baked Malibu Beige enamel. Interior surfaces of the evaporator/heat exchanger compartment are insulated to help keep the conditioned air from being affected by the outdoor ambient temperature

VERTICAL CONDENSER AIR DISCHARGE prevents recirculation of hot condenser air and reduces operating noise level.

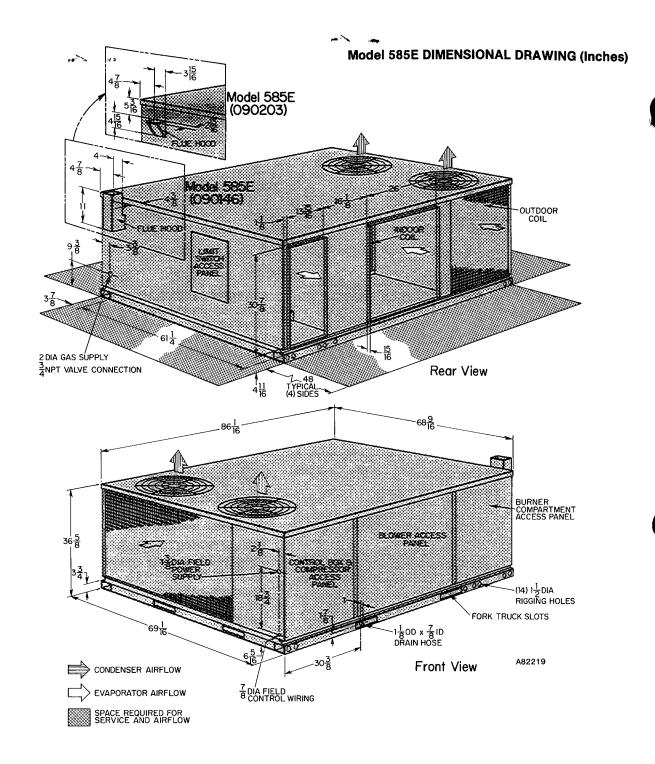
COMPRESSOR ISOLATION MOUNTING eliminates vibration (noise) transmission to building structure.

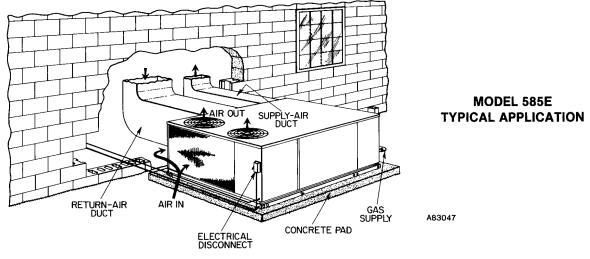
CORROSION-RESISTANT HEAT EXCHANGERS AND BURN-ERS for longer life.

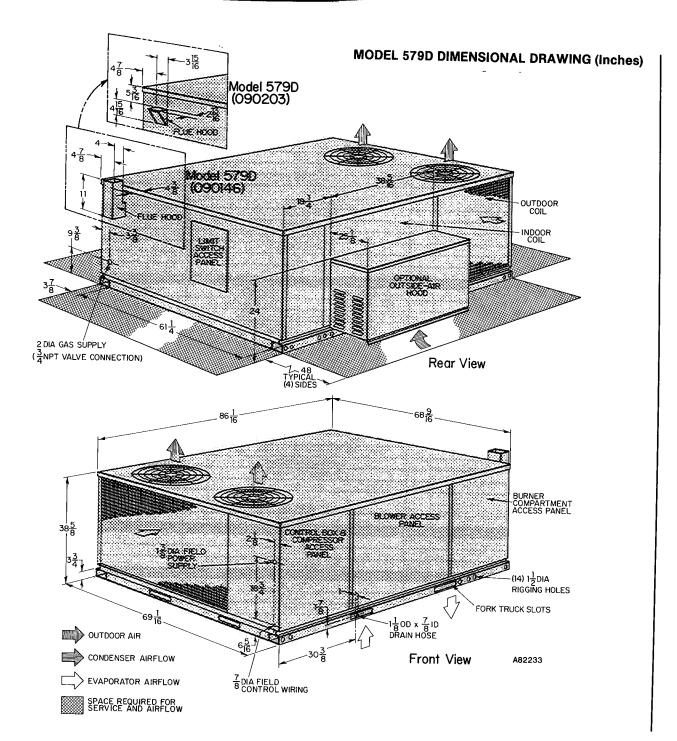
FURNACE SAFETY CONTROLS shut off gas in event of pilot outage, combustion-air failure, overheating of heat exchangers, or flame rollout.

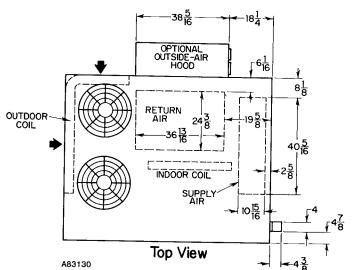
PROTECTION AS REQUIRED BY N.E.C. for fan motors

COMPROTEC®—standard on both models, prevents compressor rapid-cycling.





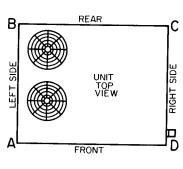




UNIT OPERATING AND CORNER WEIGHTS

Operating		Corner	Weights	
Weight	A	В	С	D
1180*	367	244	228	341

^{*}Add 60 pounds to unit if equipped with modulating economizer



MODEL	585EP090146	585EE090146	579DP090146	579DE090146		
SERIES	C	C	C	C		
RATINGS & PERFORMANCE						
Cooling	200	200	92,0	100		
Total Capacity (Btuh)*	92,0		500			
Capacity Reduction Rated Airflow (Ft³/Min)*	300		300			
Rated ESP (In. wc)*	0.2		0.2	15		
EER	8.		8.	2		
ARI Noise Rating†	9.		9.	0		
Heating						
1st-Stage Input (Btuh)		.000		000		
1st-Stage Output (Btuh)		600	146.	600		
1st- & 2nd-Stage Input (Btuh)	146,		116.			
1st- & 2nd Stage Output (Btuh)	116, 20-		20-			
Temperature Rise Range (°F) Thermal Efficiency (%)	8		8			
Certified ESP (In. wc)	1.		1.			
ELECTRICAL						
Unit Volts—Phase (60 Hz)	208/230-3	460-3	208/230—3	4603		
Operating Voltage Range	187—253	414-506	187—253	414-506		
Unit Full Load Amps	42.7	20.7	42.7	20.7		
Min Ampacity for Wire Sizing	48	23	48	23 10		
Min Wire Size (75°C Copper)‡	6	10	6 140	255		
Max Wire Length (Ft)‡	140 60	255 25	60	25		
Max Fuse Size (Amps) Control Transformer, 24-V (VA)	75	75	75	75		
CONTROL Transformer, 24-V (VA) COMPRESSOR, REFRIGERANT, & CONTROLS	10	13	-l			
Compressor No. 1 (Type—RPM)	Hermetic—3500	Hermetic-3500	Hermetic-3500	Hermetic-3500		
Rated Load Amps	15.2	7.2	15.2	7.2		
Locked Rotor Amps	80	35	80	35		
Compressor No. 2 (Type—RPM)	Hermetic — 3500	Hermetic-3500	Hermetic—3500	Hermetic—3500		
Rated Load Amps	15.2	7.2	15.2	7.2		
Locked Rotor Amps	80	35	80	35		
Compressor Protection		Linebreak	Internal L Cutout 27			
Low-Pressure Switch (PSIG)		, Reset 67 15		5		
Low-Ambient Operation (° F) Refrigerant Charge		10		<u> </u>		
Compressor No. 1 Circuit	6 lbs	s 3 oz	6 lbs	3 oz		
Compressor No. 2 Circuit		3 3 0Z		3 oz		
INDOOR COIL						
Rows & Fins per Inch		k 15		15		
Coll Face Area (Sq Ft)		'.9		.9		
Refrigerant Metering Device	Capillar	ry Tubes	Capillar	y Tubes		
INDOOR BLOWER & MOTOR	10	v 10	12	x 12		
Wheel Dia & Width (In.) Blower Pulley Pitch Dia & Bore (In.)		x 12 k 3/4		3/4		
Factory-Supplied Filters (In.)		one		, (2) 20 x 20 x 2		
Required Filter Area (Sq In)**						
Disposable Type	11	152	1	-		
Cleanable- or High-Capacity Type	9	36				
Blower Motor HP & SF	1.5 & 1.3	1.5 & 1.3	1.5 & 1.3	1.5 & 1.3		
Speed (Nominal RPM)	1725	1725	1725	1725		
Full Load Amps	6.5	3.3	6.5	3.3 .4 & 5/8		
Motor Pulley Pitch Dia & Bore (In.)		ength & 1/2		.4 & 5/8 ength & 1/2		
Belt Length & Width (ln.)	46 PICH L	engui & 172	40 FILCH E	engur & 172		
OUTDOOR COIL Rows & Fins per Inch	2 /	& 14	2.8	ß 14		
Coil Face Area (Sq Ft)		5.6		5.6		
OUTDOOR FAN & MOTOR						
Outdoor Fans, No.—Dia	2-22	2-22	2-22	222		
Motor HP	1/2	1/2	1/2	1/2		
Type—Speed	PSC-1075	PSC-1075	PSC-1075	PSC-1075 1.5 Each		
Full Load Amps	2.9 Each	1.5 Each	2.9 Each	1.0 Eacil		
GAS CONTROLS & GENERAL DATA	A	inshot	4_	Inshot		
Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural		-33		-33		
Burner Orifices (No.—Drill Size), Propane		-50		-50		
Main Gas Valve		ledundant		edundant		
Pilot (Non-100%)		over Tube		ver Tube		
Pilot Ignition		park		park		
High Limit		0, Reset 90		0, Reset 90		
Fiame Rollout		al Reset		al Reset y Relay		
Fan Control		y Relay Gas Valve				
Manual Shutoff	Part of	uas vaivo	Part of Gas Valve			

^{*}Rated in accordance with ARI Standard 210-81.







[†]Rated in accordance with ARI Standard 270-82
‡If other than 75°C copper wire is used, determine size from unit ampacity and the National Electrical Code. Voltage drop of wire must be less than 2% of unit rated voltage Maximum wire length shown is for one way along the wire path from unit to electrical service panel

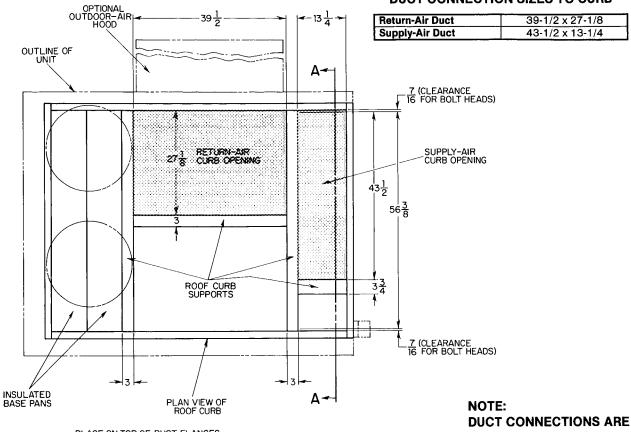
**Model 585E only Model 579D is equipped with two 20- x 20- x 2-inch and two 16- x 20- x 2-inch filters

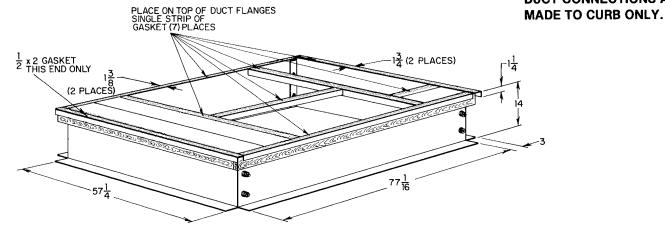
ODEL.	585EP090203	585EE090203	579DP090203	579DE090203 C		
EDIES	C	C	C	<u> </u>		
ATINGS & PERFORMANCE			<u> </u>			
ooling	92,0	00	92,0	000		
Total Capacity (Btuh)*	500		50			
Capacity Reduction	300		30			
Rated Airflow (Ft³/Min)*	0.2		0.25			
Rated ESP (In. wc)*	8.2		8.	2		
EER Poling+	9.0		9.0			
ARI Noise Rating†						
eating 1st-Stage input (Btuh)	125,	000	125,			
1st-Stage Output (Btuh)	92,			,500		
1st- & 2nd-Stage Input (Btuh)	203,	000	203,			
1st- & 2nd-Stage Output (Btuh)	160,	370		,370		
Temperature Rise Range (°F)	35-		35-			
Thermal Efficiency (%)	79	9	7			
Certified ESP (In. wc)	1.	1	1.	.1		
LECTRICAL				400.0		
nit Volts—Phase (60 Hz)	208/230—3	460-3	208/230-3	460-3		
perating Voltage Range	187—253	414—506	187—253	414-506		
nit Full Load Amps	42.7	20.7	42.7	20.7		
fin Ampacity for Wire Sizing	48	23	48	23		
nin Wire Size (75°C Copper)‡	6	10	6	10		
Max Wire Length (Ft)‡	140	255	140	255		
Max Fuse Size (Amps)	60	25	60	25 75		
Control Transformer, 24-V (VA)	75	75	75	/5		
COMPRESSOR, REFRIGERANT, & CONTROLS			Hermetic—3500	Hermetic—3500		
Compressor No. 1 (Type—RPM)	Hermetic—3500	Hermetic—3500		7.2		
Rated Load Amps	15.2	7.2	15.2	35		
Locked Rotor Amps	80	35	80	Hermetic—3500		
Compressor No. 2 (Type—RPM)	Hermetic—3500	Hermetic — 3500	Hermetic — 3500	7.2		
Rated Load Amps	15.2	7.2	15.2	35		
Locked Rotor Amps	80	35	80	Linebreak		
Compressor Protection	Internal L			7, Reset 67		
Low-Pressure Switch (PSIG)	Cutout 27	·		45		
Low-Ambient Operation (°F)	4	5		40		
Refrigerant Charge	9.11.	0	6 lbs 3 oz 6 lbs 3 oz			
Compressor No. 1 Circuit		3 oz				
Compressor No. 2 Circuit	6 IDS	3 oz				
INDOOR COIL	2.8	15	3.6	& 15		
Rows & Fins per Inch		.9		7.9		
Coil Face Area (Sq Ft)		y Tubes		ry Tubes		
Refrigerant Metering Device	Сарша	y Tobes	000	.,		
INDOOR BLOWER & MOTOR	12	x 12	12	x 12		
Wheel Dia & Width (In.)		3/4	5.5	§ 3/4		
Blower Pulley Pitch Dia & Bore (In.)		one	(2) 16 × 20 × 2	2, (2) 20 × 20 × 2		
Factory-Supplied Filters (In.)						
Required Filter Area (Sq In)**	11	152		_		
Disposable Type		36				
Cleanable- or High-Capacity Type Blower Motor HP & SF			1.5 & 1.3	1.5 & 1.3		
Speed (Nominal RPM)	15&13	1.5 & 1.3		1725		
	1.5 & 1.3 1725		1725	1723		
	1725	1.5 & 1.3 1725 3.3	1-05	3.3		
Full Load Amps	1725 6.5	1725 3.3	1725 6.5			
Full Load Amps Motor Pulley Pitch Dia & Bore (In.)	1725 6.5 2.4–3	1725 3.3 .4 & 5/8	1725 6.5 2.4—3	3.3		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.)	1725 6.5 2.4–3	1725 3.3	1725 6.5 2.4—3	3.3 3.4 & 5/8		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL	1725 6.5 2.4-3 46 Pitch L	1725 3.3 .4 & 5/8	1725 6.5 2.4—3 46 Pitch I	3.3 3.4 & 5/8 Length & 1/2		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch	1725 6.5 2.4-3 46 Pitch L	1725 3.3 .4 & 5/8 ength & 1/2	1725 6.5 2.4—3 46 Pitch I	3.3 3.4 & 5/8 Length & 1/2		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coll Face Area (Sq Ft)	1725 6.5 2.4-3 46 Pitch L	1725 3.3 .4 & 5/8 ength & 1/2	1725 6.5 2.4—3 46 Pitch I	3.3 3.4 & 5/8 ength & 1/2 & 14 5.6		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coll Face Area (Sq Ft) OUTDOOR FAN & MOTOR	1725 6.5 2.4-3 46 Pitch L	1725 3.3 .4 & 5/8 ength & 1/2	1725 6.5 2.4— 46 Pitch I	3.3 3.4 & 5/8 Length & 1/2 & 14 15.6		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia	1725 6.5 2.4-3 46 Pitch L	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2	1725 6.5 2.4–3 46 Pitch I 2 2 2–22 1/2	3.3 3.4 & 5/8 Length & 1/2 & 14 15.6 2-22 1/2		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch COII Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP	1725 6.5 2.4-3 46 Pitch L	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075	1725 6.5 2.4—3 46 Pitch I 2 2 12—22 1/2 PSC—1075	3.3 3.4 & 5/8 Length & 1/2 & 14 15.6 2-22 1/2 PSC-1075		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed	1725 6.5 2.4-3 46 Pitch L 2 4 1 2-22 1/2	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2	1725 6.5 2.4–3 46 Pitch I 2 2 2–22 1/2	3.3 3.4 & 5/8 Length & 1/2 & 14 15.6 2-22 1/2		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coll Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps	1725 6.5 2.4-3 46 Pitch L 2 4 1 2-22 1/2 PSC-1075	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075	1725 6.5 2.4— 46 Pitch I 2 1 2—22 1/2 PSC-1075 2.9 Each	3.3 3.4 & 5/8 Length & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COLL Rows & Fins per Inch Coll Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type)	1725 6.5 2.4–3 46 Pitch L 2 2 6 1 2–22 1/2 PSC–1075 2.9 Each	1725 3.3 .4 & 5/8 ength & 1/2 \$.14 5.6 2-22 1/2 PSC-1075 1.5 Each	1725 6.5 2.4—3 46 Pitch I 2 2 12 2—22 1/2 PSC—1075 2.9 Each	3.3 3.4 & 5/8 Length & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COLL Rows & Fins per Inch Coll Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type)	1725 6.5 2.4–3 46 Pitch L 2 6 1 2–22 1/2 PSC–1075 2.9 Each	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each	1725 6.5 2.4— 46 Pitch I 2 1 2—22 1/2 PSC-1075 2.9 Each	3.3 3.4 & 5/8 Length & 1/2 & 14 15.6 2-22 1/2 PSC-1075 1.5 Each		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COLL Rows & Fins per Inch Coll Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type)	1725 6.5 2.4-3 46 Pitch L 2 6 1 2-22 1/2 PSC-1075 2.9 Each	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2—22 1/2 PSC-1075 1.5 Each	1725 6.5 2.4—3 46 Pitch I 2 2 1/2 2—22 1/2 PSC—1075 2.9 Each	3.3 3.4 & 5/8 Length & 1/2 & 14 15.6 2-22 1/2 PSC-1075 1.5 Each -Inshot -29 -45		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane	1725 6.5 2.4-3 46 Pitch L 2 2 3 1 2-22 1/2 PSC-1075 2.9 Each	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each	1725 6.5 2.4—3 46 Pitch I 2 2—22 1/2 PSC—1075 2.9 Each	3.3 3.4 & 5/8 Length & 1/2 & 14 15.6 2-22 1/2 PSC-1075 1.5 Each Inshot 29 45 Redundant		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve	1725 6.5 2.4-3 46 Pitch L 2 6 1 2-22 1/2 PSC-1075 2.9 Each 4- 4- 24-VR Crosso	1725 3.3 3.4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each Inshot -29 -45 tedundant over Tube	1725 6.5 2.4— 46 Pitch I 2 -22 1/2 PSC-1075 2.9 Each 4- 4 24-VI Cross	3.3 3.4 & 5/8 Length & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each -Inshot2945 Redundant over Tube		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane	1725 6.5 2.4-3 46 Pitch L 2 2 3 1 2-22 1/2 PSC-1075 2.9 Each 4- 4. 24-V Crosso S	1725 3.3 .4 & 5/8 ength & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each linshot -29 -45 tedundant tover Tube	1725 6.5 2.4— 46 Pitch I 2 — 22 1/2 PSC—1075 2.9 Each 4— 4— 4— 24-VI Cross	3.3 3.4 & 5/8 Length & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each -Inshot -29 -45 Redundant over Tube Spark		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve Pilot (Non-100%)	1725 6.5 2.4—3 46 Pitch L 2 2 3 11 2—22 11/2 PSC—1075 2.9 Each 4— 4. 24-V R Crosses S Cutout 17	1725 3.3 3.4 & 5/8 ength & 1/2 \$ 14 5.6 2-22 1/2 PSC-1075 1.5 Each Inshot -29 -45 teledundant vover Tube park 0, Reset 140	1725 6.5 2.4— 46 Pitch I 2 — 22 1/2 PSC—1075 2.9 Each 4— 4— 4— 24-VI Cross Cutout 17	3.3 3.4 & 5/8 Length & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each -Inshot -29 -45 Redundant over Tube spark 70, Reset 140		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coil Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve Pilot (Non-100%) Pilot Ignition	1725 6.5 2.4-3 46 Pitch L 2.6 1 2-22 1/2 PSC-1075 2.9 Each 4- 4. 24-V R Crosse S Cutout 17 Manu	1725 3.3 3.4 & 5/8 ength & 1/2 \$ 14 5.6 2-22 1/2 PSC-1075 1.5 Each Inshot -29 -45 tedundant ver Tube park 0, Reset 140 tal Reset	1725 6.5 2.4—3 46 Pitch I 2 1/2 PSC—1075 2.9 Each 4—4 4—4 24-V (Cross Cutout 17 Mann	3.3 3.4 & 5/8 Length & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each -Inshot -29 -45 Redundant over Tube Spark 70, Reset 140 ual Reset		
Full Load Amps Motor Pulley Pitch Dia & Bore (In.) Belt Length & Width (In.) OUTDOOR COIL Rows & Fins per Inch Coll Face Area (Sq Ft) OUTDOOR FAN & MOTOR Outdoor Fans, No.—Dia Motor HP Type—Speed Full Load Amps GAS CONTROLS & GENERAL DATA Burners (No.—Type) Burner Orifices (No.—Drill Size), Natural Burner Orifices (No.—Drill Size), Propane Main Gas Valve Pilot (Non-100%) Pilot Ignition High Limit	1725 6.5 2.4-3 46 Pitch L 2 6.5 1 2-22 1/2 PSC-1075 2.9 Each 4- 4. 24-V R Crosso S Cutout 17 Manu	1725 3.3 3.4 & 5/8 ength & 1/2 \$ 14 5.6 2-22 1/2 PSC-1075 1.5 Each Inshot -29 -45 teledundant vover Tube park 0, Reset 140	1725 6.5 2.4—3 46 Pitch I 2 2—22 11/2 PSC—1075 2.9 Each 4—4 4 24-V I Cross Cutout 17 Man	3.3 3.4 & 5/8 Length & 1/2 & 14 5.6 2-22 1/2 PSC-1075 1.5 Each -Inshot -29 -45 Redundant over Tube spark 70, Reset 140		

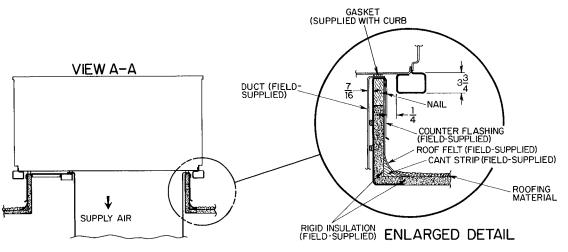
^{*}Rated in accordance with ARI Standard 210-81

[†]Rated in accordance with ARI Standard 270-82
‡If other than 75°C copper wire is used, determine size from unit ampacity and the National Electrical Code Voltage drop of wire must be less than 2% of unit rated voltage Maximum wire length shown is for one way along the wire path from unit to electrical service panel
**Model 585E only Model 579D is equipped with two 20- x 20- x 2-inch and two 16- x 20- x 2-inch filters

DUCT CONNECTION SIZES TO CURB







A83006

DETAILED NET COOLING CAPACITIES

| | | | CONDENSOR AIR TEMPERATURE (°F) | |

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Sys

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 | Total
Sys | | • |
 | | Total
Svs | | •
 | | | Total
Sys |
| | | | LDB | LWB | KW

 | Total

 | Sens

 | LDB
 | LWB

 | KW | Total | Sens | LDB
 | LWB | KW | Total | Sens
 | LDB | LWB | KW |
| 71 | 96.8 | 50 4 | 60 2 | 58 7 | 10.3

 | 95.4

 | 50.3

 | 60.3
 | 1 58 Q

 | 111 | 01.0 | 400 | 60.0
 | E0 5 | 33.7 | 00.0 |
 | | | |
| 63 | 87.2 | 72.7 | 51.5 | 54 0
49.7 | 10.2
10.0

 | 89 2
79.0

 | 60 9
69.0

 | 56 1
52.9
 | 54 6
51.1

 | 10.8 | 80 0
69.0 | 57 1 | 57 6
 | 56.0 | 11 4 | 69 5 | 52 9
 | 593 | 576 | 12 4
12 0 |
| 67
63 | 93 5
88.0 | 51 3
63 4
74.9 | 61 1
56 6
52.4 | 59 5
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 | 96 2
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 | 11.2
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| | WB 585E 71 67 63 71 67 63 71 67 63 71 67 63 71 67 63 71 67 | ** MB Total 5885 & 5791 96.8 87.2 71 93.2 63 87.2 71 97.4 67 93.5 63 88.0 71 97.2 663 89.2 71 98.1 67 95.1 63 90.3 71 98.1 67 95.1 63 90.3 71 98.1 67 95.1 63 90.3 71 98.1 67 95.1 63 90.3 71 98.1 67 95.1 63 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90. | WB Total Sens 585E \$579D 71 96.8 50.4 67 93.2 62.1 63 87.2 72.7 71 97.4 51.3 67 93.5 63.4 63 88.0 74.9 71 97.2 52.1 67 94.0 65.5 63 89.2 78.3 71 98.1 53.5 67 95.1 68.1 5 67 95.1 69.8 63 91.1 84.4 71 98.2 55.0 67 95.1 69.8 63 91.1 84.4 71 98.2 75.2 67 95.9 72.2 | **F WB tub** **WB Total Sens LDB** **585E & 579D** 71 96.8 60.2 1 55.6 66.3 87.2 72.7 51.5 71 97.4 51.3 61.1 67 93.5 63.4 566.3 88.0 74.9 52.4 71 97.2 52.1 62.5 63 89.2 78.3 53.8 71 98.1 53.5 63.6 67 95.1 68.1 59.1 68.1 59.1 68.1 59.1 68.1 59.1 63.90.3 81.5 55.5 63.6 67 95.1 69.8 60.2 63.91.1 84.4 56.1 71. 98.2 55.4 66.1 79.5 1 69.8 60.2 63.91.1 84.4 56.1 71. 98.2 55.4 66.5 46.7 95.9 72.2 61.0 | °F MBtuh LDB LWB 585E \$579D LDB LWB 71 96.8 \$50 4 60 2 58 7 6 7 93 2 63 87.2 72.7 51.5 49.7 71 97.4 51 3 61 1 59 5 4 8 8 8 8 8 8 8 8 7 4.9 52.4 50.4 63 88.0 74.9 52.4 50.4 71 97 2 52.1 62 5 60 7 65 58 0 56.0 60 7 65 58 0 56.0 56.0 <td>°F MBuh LDB LWB Sys 7585E & 579D LDB LWB KW 71 96.8 50.4 60.2 58.7 10.3 67 93.2 62.4 55.6 54.0 10.2 63 87.2 72.7 51.5 49.7 10.0 71 97.4 51.3 61.1 59.5 10.4 67 93.5 63.4 56.6 54.8 10.3 63 88.0 74.9 52.4 50.4 10.1 71 97.2 52.1 62.5 60.7 10.5 67 94.0 65.5 58.0 56.0 10.4 71 98.1 53.5 63.6 61.5 10.2 71 98.1 53.5 63.6 61.5 10.7 67 95.1 68.1 59.1 56.9 10.6 63 90.3 81.5 55.0 52.4 10.4 <td< td=""><td>**F MBtuh LDB LWB Sys MB 7585E & 579D 196.8 50.4 60.2 58.7 10.3 95.4 67 93.2 62.1 55.6 54.0 10.2 89.2 63 87.2 72.7 51.5 49.7 10.0 79.0 71 97.4 51.3 61.1 59.5 10.4 96.2 67 93.5 63.4 56.6 54.8 10.3 90.2 63 88.0 74.9 52.4 50.4 10.1 80.4 71 97.2 52.1 62.5 60.7 10.5 97.2 67 94.0 65.5 58.0 56.0 10.4 91.2 67 95.1 68.1 59.1 56.9 10.2 82.6 71 98.1 53.5 63.6 61.5 10.2 82.6 71 98.1 53.5 55.0 56.9 10.6 92.0 <t< td=""><td>°F MBtuh LDB LWB Sys MBtuh 7585E & 579D 103 95.4 50.2 58.7 10.3 95.4 50.3 67 93.2 62.1 55.6 54.0 10.2 89.2 60.9 63 87.2 72.7 51.5 49.7 10.0 79.0 69.0 71 97.4 51.3 61.1 59.5 10.4 96.2 51.4 67 93.5 63.4 56.6 54.8 10.3 90.2 62.6 63 88.0 74.9 52.4 50.4 10.1 80.4 71.5 71 97.2 52.1 62.5 60.7 10.5 97.2 53.0 67 94.0 65.5 58.0 56.0 10.4 91.2 65.3 67 95.1 68.1 59.1 56.9 10.2 82.6 75.5 71 97.2 52.1 62.5 60.7 10.5 <t< td=""><td>°F MBtuh LDB LWB Sys MBtuh LDB 7585E & 579D 103 954 50.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60.9 52.9 60.9 56.1 60.9 52.9 50.0 52.9 79.0 69.0 52.9 52.9 50.0 52.9 70.0 69.0 52.9 50.9 50.0 50.4 10.1 80.4 <td< td=""><td>°F MBtuh LDB LWB Sys MBtuh LDB LWB 7585E & 579D 71 96.8 50.4 60.2 58.7 10.3 95.4 50.3 60.3 58.9 67 93.2 62.1 55.6 54.0 10.2 89.2 60.9 56.1 54.6 63 87.2 72.7 51.5 49.7 10.0 79.0 69.0 52.9 51.1 71 97.4 51.3 61.1 59.5 10.4 96.2 51.4 61.1 59.6 67 93.5 63.4 56.6 54.8 10.3 90.2 62.6 66.9 55.9 63 88.0 74.9 52.4 50.4 10.1 80.4 71.5 53.6 51.6 71 97.2 52.1 62.5 60.7 10.5 97.2 53.0 62.2 60.7 67 94.0 65.5 58.0 56.0 10.4 91.2</td><td>°F MBtuh LDB LWB Sys
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 MBtuh LDB LWB Sys MBtuh LDB LWB 7585E & 579D 71 96.8 50.4 60.2 58.7 10.3 95.4 50.3 60.3 58.9 67 93.2 62.1 55.6 54.0 10.2 89.2 60.9 56.1 54.6 63 87.2 72.7 51.5 49.7 10.0 79.0 69.0 52.9 51.1 71 97.4 51.3 61.1 59.5 10.4 96.2 51.4 61.1 59.6 67 93.5 63.4 56.6 54.8 10.3 90.2 62.6 66.9 55.9 63 88.0 74.9 52.4 50.4 10.1 80.4 71.5 53.6 51.6 71 97.2 52.1 62.5 60.7 10.5 97.2 53.0 62.2 60.7 67 94.0 65.5 58.0 56.0 10.4 91.2</td><td>°F MBtuh LDB LWB Sys
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- Sensible heat capacities shown are based on 80°F entering air at the indoor coil
- 2. Direct interpolation is permissible Do not extrapolate.

- 3 To interpolate:
 - (a) below 80°F DB, subtract 805 Btuh per 1000 Ft3/Min for each degree below 80°F from the listed sensible capacity
 - (b) above 80° DB, add 804 Btuh per 1000 Ft3/Min for each degree above 80°F to the listed sensible capacity

MODEL 585E AIR DELIVERY AT INDICATED E.S.P. (In. wc)—WITH WET COIL AND NO AIR FILTERS

	1.5-HP Motor, 1.3 Service Factor, 1.95 Max BHP, 850—1200-RPM Drive Range																			
Airflow	0		0	.2	0	.3		.4		.5	0.	_	0	.7		.8	0.	q	1	
(Ft³/Min)	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	.U BHP
2350	700	₹ 68	735	0.73	785	0.77	735	6.81	820	0.84	850	0.90	885	0.96	920	1.01				DHP
2500	730	0.78	755	0.83	785	0.84	818	98.0	840	0.93	870	0.99	905	1.02		1.01	940	1.05	970	1.11
2750	780	0.96	805	0.94	830	8.98	860	1.03	890						935	1.09	970	1.16	1005	1.23
3000	830		865	1.13	885	1 17				1.08	920	1.12	950	1.19	985	1.26	1020	1.32	1035	1.50
3250	885					1.17	920	1.22	945	1.27	960	1.41	988	1.56	1025	1.67	1050	1.73	1075	1.82
		1.27	905	1.51	940	1.58	970	1.70	1005	1.81	1030	1.87	1060	1.94	200					·
3500	935	1.71	970	1.82	1010	1.89			[-									<u></u>	,

- E.S P. = External Static Pressure
- RPM = Blower fan revolutions per minute
 - BHP = Brake horsepower
- NOTES: 1. Shaded portions of table are beyond standard drive range or motor horsepower at rated voltage See "Motor Pulley Settings" table for pulley setting to obtain required blower fan RPM for desired airflow
 - Pressure drop of field-supplied filters must be included in duct system external static pressure.

MODEL 579D AIR DELIVERY AT INDICATED E.S.P. (In. wc)—WITH WET COIL AND STANDARD AIR FILTERS

	1.5-HP Motor, 1.3 Service Factor, 1.95 Max BHP, 850—1200-RPM Drive Range																			
Airflow	0	.1	0		0	.3	0).4	0	.5	O	.6	0	.7 ′	0	8	0	.9	T i	<u> </u>
(Ft³/Min)	BPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2350	730	8.59	750	0.73	780	0.60	610	0.84	835	0.89	865	0.93	895	0.98	935	1.03	950			DNF
2500	745	8.78	773	8.83	809	3.87	825	0.92	855	0.97	885	1.00	920			1.03		1.08	985	1.15
2750	795	8.93	820	0.97	B45	1.01	880	1.07	910	1 11		1.00		1.05	950	1.11	985	1.18	1020	1.25
3000	850	1 1 1	885	1.17	910					1.11	940	1.17	970	1.24	1005	1.31	1035	1.38	1040	1.57
		1.11				1.24	935	1.30	960	1.50	990	1.58	1015	1.64	1047	1.74	1075	1.82	1080	1.91
3250	910	1.50	940	1.60	970	1.68	995	1.70	1025	1.85	1060	1.95	-		200		1		Larra Zarra	ļ
3500	935	1.71	970	1.82	1010	1.89				_			·							

- E S.P. = External Static Pressure
- RPM = Blower fan revolutions per minute.
- BHP = Brake horsepower
- Shaded portions of table are beyond standard drive range or motor horsepower at rated voltage NOTES: 1
 - See "Motor Pulley Settings" table for pulley setting to obtain required blower fan RPM for desired airflow
 - See "Accessories Pressure Drops" table for economizer and wet coil pressure drops.

ACCESSORIES & OPTIONAL EQUIPMENT

Used With Model	Kit Description	Kit P/N
579D	Roof Mounting Curb	307175-106
579D	Manual Outside-Air Damper*	307178-101
579D	Two-Position Damper Motor†	307180-101
579D	Modulating Economizer‡	307182-101
579D & 585E	LP-Conversion Kit (090203)	307188-102
579D & 585E	LP-Conversion Kit (090146)	307188-101

- *Provides up to 35% outside air.
- †For use with manual outside-air damper.
- ‡Includes rain hood and relief-air damper.

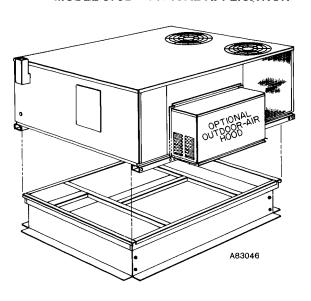
ACCESSORIES PRESSURE DROPS

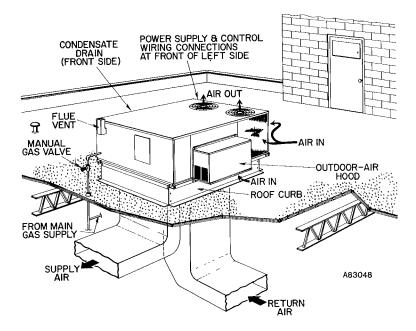
Airflow (Ft³/Min)	Economizer PD (In. wc)	Wet Coil PD (in. wc)
2350	0.012	0.038
2500	0.014	0.042
2750	0.018	0.052
3000	0.020	0.062
3250	0.024	0.072
3500	0.028	0.082

FAN RPM AT MOTOR PULLEY SETTINGS

Motor Pulley	Blower	
Turns Open	Fan RPM	-
0	1200	
1/2	1165	
1	1130	
1-1/2	1095	
2	1060	
2-1/2	1025	
3	990	
3-1/2	955	
4	920	
4-1/2	885	
5	850	

MODEL 579D—TYPICAL APPLICATION





ENGINEER'S SPECIFICATION GUIDE

GENERAL: Furnish and install a self-contained electric cooling/ gas heating Model 585E Rooftop Unit with horizontal supply- and return-air connections, or install a Model 579D mounted on a full perimeter factory-supplied curb with supply- and return-air ducts connected within the curb. Holes shall be provided in unit baseralls for rigging and lifting operations. Units shall be shipped fully charged with oil and R-22 refrigerant. Unit design shall be A.G.A certified and labeled accordingly.

COOLING CAPACITY: Total net cooling capacity of the unit shall be ______Btuh or greater, and sensible capacity shall be ______Btuh or greater at conditions of ______Ft³/Min evaporator air entering unit at ______°F dry bulb, _____°F wet bulb and condenser entering air of _______°F dry bulb. Total power consumption shall not exceed ______KWH. The EER at design conditions shall be a minimum of ______Btuh/watt. The unit shall be capable of cooling operation down to 45°F. Two-stage cooling shall be provided.

HEATING CAPACITY: Total heating capacity of the unit shall be _______Btuh maximum input. First-stage heating input shall be _______Btuh.

CABINET: The cabinet shall be constructed of heavy-gauge zinc-coated galvanized steel with Malibu Beige baked enamel finish. Unit shall be capable of firing natural (propane) gas as certified by A.G A.

COMPRESSORS: Both compressors shall be of the welded, fully hermetic type with crankcase heaters and suitable vibration isolators. A separate refrigerant circuit shall be provided for each compressor.

CONDENSER SECTION: The condenser coil shall be constructed of aluminum plate fins mechanically bonded to seamless copper tubes. The condenser fans shall be direct-driven propeller type and mounted for vertical air discharge.

EVAPORATOR SECTION: The evaporator coil shall be constructed of aluminum plate fins mechanically bonded to seamless copper tubes. The evaporator fan shall be of the forward curved centrifugal type, belt driven. Adjustment of airflow shall be accomplished by means of an adjustable pitch pulley.

GAS HEATING SECTION: The unit shall be equipped with an aluminized steel, 4-pass tubular heat exchanger Gas controls shall include a two-stage redundant gas valve/regulator, an intermittent pilot ignition system, high-limit switch, and a time-delay neating relay. Combustion air shall be induced by a power venting fan capable of handling 100% of flue gas products. The power venter shall include a centrifugal end switch to prove operation of the power venter fan before allowing ignition.

CONTROL CIRCUIT: The unit control panel shall be prewired in the unit casing—furnished with a 24-V control transformer, low-pressure switches, compressor, condenser, and evaporator fan motor contactors, as well as other protective devices.

ADDITIONAL EQUIPMENT (MODEL 579D): A full roof curb shall be provided. Curb design shall provide for connection of ductwork to the curb before unit placement.

A manual outside-air damper, complete with birdscreen, shall be furnished for field attachment

An economizer control shall be factory-assembled and installed in the unit. The economizer control shall maintain a fixed supply-air temperature during the "free" cooling operation by providing for full modulation of the operable outside- and return-air dampers. The package shall be complete with necessary dampers, linkage, and spring-return modulating damper motor. The economizer controls shall include an enthalpy control capable of controlling the dampers by measuring the heat content of the outside air.

APPROVALS: The unit shall be A.G.A. certified as an electric cooling/gas heating outdoor unit. All wiring shall be in compliance with N.E.C. The unit shall be certified by ARI for cooling capacity and noise ratings.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS