



Q-TEC™ Q24H2-Q60H2 Air-to-Air Heat Pump 9 EER Units

GREEN REFRIGERANT R-410A

Heating Capacities: 23,600 to 48,000 Btuh
Cooling Capacities: 25,000 to 53,000 Btuh

The Q-TEC Series self contained packaged heat pump is designed to be installed inside a building structure against an exterior exposed wall. Q-TEC's design provides "whisper" quiet operation with total comfort for the occupants. This design eliminates the need for roof-mounted equipment and outside condensing units and can meet your specific architectural requirements.

Q-TEC's "quiet technology" provides extremely low sound levels (both indoor and outdoor) by using special components and materials in the construction of the unit. By using special motors, sound insulation and other sound absorbing construction, we have built a heat pump system that is significantly quieter than typical product available today.

Q-TEC is designed for both new construction and renovation projects for schools, modular buildings and light commercial buildings. A variety of ventilation and dehumidification options are designed to address your project's indoor air quality and dehumidification requirements.

The Q-TEC Series unique design allows all maintenance and service to be performed inside the building to facilitate multi-story installations. Access to air filters and controls is accomplished through a hinged front panel for easy accessibility. All Q-TEC Series models are built on heavy duty permanent rollers for easy installation and removal from the wall sleeve for additional service access.

Q-TEC's durable, easy to clean cabinet is aesthetically pleasing and comes standard with side and bottom trim pieces. Two types of cabinet finish are available: a durable two tone (slate and platinum) vinyl covered steel, or gray pre-painted steel.



Engineered Features

Scroll Compressor – The Copeland scroll compressor has been designed for increased efficiency, quieter operation with reduced shutdown noise and improved reliability for longer life. Eliminates need for crankcase heater and suction line accumulator.

Compressor Sound Reduction – Compressor is mounted on full floating base with double grommets and is equipped with discharge muffler and sound cover.

Phase Rotation Monitor – Standard on all 3-phase scroll compressors. Protects against reverse rotation if power supply is not properly connected.

Indoor Blower Motor – All models feature a variable speed (ECM) motor providing super high efficiency, low sound levels and soft start capabilities. The motor is self-adjusting to provide the proper airflow rate at high static pressure for ducted installations without user adjustment or wiring changes. Optional dehumidification circuit (hot gas reheat) provides improved dehumidification when used with humidistat.

Outdoor Fan Motor – The PSC outdoor fan motor has double oil capacity sleeve bearings and is totally enclosed for extended life.

Copper Tube/Aluminum Fin Coils – Grooved copper tubing and enhanced aluminum fins provide maximum heat transfer and high energy efficiency. Optional phenolic coated coils are available.

Cabinet – Constructed of 20 gauge pre-painted or vinyl laminated galvanized steel. Choice of either two tone vinyl finish with "slate" front panels and "platinum" cabinet for designer appearance, or gray or beige painted steel. Vinyl finish is very resistant to scratching and marring and is very easy to clean. Tamper resistant fasteners are provided for access panels. Unit includes built-in rollers for easy installation into wall sleeve and removal for service if necessary. Hinged, lockable front panel for filter service and access to primary functional electrical controls.

Insulation – Cabinet is fully insulated with foil covered, high density fiberglass insulation with sealed edge treatment and special sound deadening insulation material in the compressor section. All insulation is designed to resist mold and mildew growth and facilitate ease of cleaning.

Electrical Components – Are easily accessible for routine inspection and maintenance through front service panels. Circuit breaker standard on all 208/230V models and rotary disconnect standard on all 460V models. Circuit breaker/rotary disconnect access is through lockable access panel. Lock and key provided as standard equipment.

Electric Heat Strips – Backup electric heat strips feature automatic limit safety controls. Heater packages are factory installed for all models. See Electric Heat Table for available options.

Hot Water Coil – A plenum mounted hot water coil is available for both free-blow and ducted applications.

Air Filters – One-inch disposable panel type air filters are standard. Optional two-inch pleated and two-inch fiberglass disposable air filters are available. Optional Energy Recovery Ventilator has a separate filter for exhaust air to keep ERV clean.

Solid State Electronic Heat Pump Control – Provides efficient 30-minute defrost cycle. A thermistor sensor and speed up terminal for service along with a 10-minute defrost override are standard on the electronic heat pump control.

Refrigerant Service Ports – Located in filter compartment for easy access.

Liquid Filter Dryer – Standard on all models.

High/Low Pressure Switch – Provides refrigerant circuit high pressure & loss of charge protection. Includes lockout circuit that is resettable from room thermostat.

Five Minute Compressor Time Delay – Provides short cycle protection for the compressor, which extends compressor life. Built into the electronic heat pump control as standard.

Ventilation Packages – Barometric fresh air damper standard on all units and allows up to 25% outside fresh air. Optional energy recovery ventilator can provide up to 450 CFM of outside air and exhaust through the unit while maintaining indoor comfort and humidity levels. Commercial room ventilator and blank-off plate are also available.

Diagnostic Light – System service - indicates high or low pressure switch operation for compressor protection. Located inside control panel.

Stainless Steel Drain Pans – Provides extended life of the evaporator and condenser drain pans for maximum corrosion resistance.

Side Trim Piece Extension – Provides cabinet extension between interior wall and unit when wall thickness is between 12 inches to 14 inches. This is a space up to 4". Standard feature shipped with all models. Optional trim kits for thinner walls or longer wall sleeves available.

Wall Sleeve – Constructed of 16 gauge galvanized steel, coated with epoxy primer and a baked on polyester enamel paint, which allows it to withstand 1000 hours of salt spray tests per ASTM B117-03. Required for all models. Ordered separately.

- Complies with efficiency requirements of ANSI/ASHRAE/IESNA 90.1-2010.
- Certified to ANSI/ARI Standard 390-2003 for SPVU (Single Package Vertical Units).
- Intertek ETL Listed to Standard for Safety Heating and Cooling Equipment ANSI/UL 1995/CSA 22.2 No. 236-05, Fourth Edition.
- Commercial Product - Not intended for Residential application.



Intertek



Bard is an
ISO Certified
Manufacturer

Form No S3407-517
Supersedes S3407-816
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Capacity and Efficiency Ratings

MODELS	Q24H2	Q30H2	Q36H2	Q42H2	Q48H2	Q60H2
Cooling Capacity BTUH ①	25,000	29,800	35,000	39,000	45,000	53,000
EER ②	10.50	9.70	9.50	9.00	9.00	9.00
High Temp Heating (47F) BTUH ①	23,600	28,800	34,000	38,000	42,000	48,000
COP ②	3.00	3.00	3.00	3.00	3.00	3.00
Low Temp Heating (17F) BTUH ①	15,000	18,000	22,000	24,600	27,000	30,000
COP ②	2.10	2.10	2.10	2.10	2.10	2.10

① Capacity is certified in accordance with ANSI/ARI Standard 390-2003.

② EER = Energy Efficiency Ratio and is certified in accordance with ANSI/ARI Standard 390-2003.

All ratings based on fresh air intake being 100% closed (no outside air introduction).

Specifications - 2, 2½ and 3 Ton

MODELS	Q24H2-A	Q24H2-B	Q24H2-C	Q30H2-A	Q30H2-B	Q30H2-C	Q36H2-A	Q36H2-B	Q36H2-C
ELECTRICAL RATING – 60 HZ	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3
Operating Voltage Range	197-253		414-506	197-253		414-506	197-253		414-506
COMPRESSOR – CIRCUIT A									
Voltage	230/208		460	230/208		460	230/208		460
Rated Load Amps	10.3/11.4	6.7/7.4	4.6	12.7/14.4	8.2/9.2	5.8	16.2/18.4	12.0/13.6	6.2
Branch Circuit Selection Current	12.9	8.4	5.2	14.3	9.2	5.8	18.4	13.6	6.2
Lock Rotor Amps	64/64	58/58	28	77/77	71/71	38	112/112	88/88	44
FAN MOTOR & CONDENSER									
Fan Motor--HP-RPM-SPD	1/5 - 1075 - 1			1/5 - 1075 - 1			1/5 - 1075 - 1		
Fan Motor-- Volts-Amps	230/208 - 1.6		460 - .8	230/208 - 1.6		460 - .8	230/208 - 1.9		460 - 1.0
Fan--DIA-CFM	20" - 1600			20" - 1600			20" - 1800		
MOTOR & EVAPORATOR									
Blower Motor HP-SPD	1/2 - Variable			1/2 - Variable			1/2 - Variable		
Blower Motor--Volts-Amps	230/208 - 1.8			230/208 - 2.7			230/208 - 3.7		
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	800 @ .10 ESP			1000 @ .15 ESP			1200 @ .15 ESP		
Filter Sizes (inches) STD.	1 - 16x20x1 & 1 - 16x16x1			1 - 16x20x1 & 1 - 16x16x1			1 - 16x20x1 & 1 - 16x16x1		
SHIPPING WEIGHT – LBS.	525			525			540		

Specifications - 3½, 4 and 5 Ton

MODELS	Q42H2-A	Q42H2-B	Q42H2-C	Q48H2-A	Q48H2-B	Q48H2-C	Q60H2-A	Q60H2-B	Q60H2-C
ELECTRICAL RATING – 60 HZ	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3
Operating Voltage Range	197-253		414-506	197-253		414-506	197-253		414-506
COMPRESSOR – CIRCUIT A									
Voltage	230/208		460	230/208		460	230/208		460
Rated Load Amps	17.7/20.4	11.7/13.5	6.3	20/23	13.9/16	7.1	23.8/27.8	14.2/16.5	8.3
Branch Circuit Selection Current	20.4	13.5	6.3	23.1	16.1	7.1	27.8	16.5	8.3
Lock Rotor Amps	109/109	83/83	41	134/134	91/91	46	134/134	110/110	52
FAN MOTOR & CONDENSER									
Fan Motor--HP-RPM-SPD	1/5 - 1075 - 1			1/5 - 1075 - 1			1/5 - 1200 - 1		
Fan Motor-- Volts-Amps	230/208 - 1.9		460 - 1.0	230/208 - 1.9		460 - 1.0	230/208 - 2.1		460 - 1.0
Fan--DIA-CFM	20" - 1800			20" - 2000			20" - 2100		
MOTOR & EVAPORATOR									
Blower Motor HP-SPD	1/2 - Variable			1/2 - Variable			3/4 - Variable		
Blower Motor--Volts-Amps	230/208 - 3.7			230/208 - 4.6			230/208 - 4.9		
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	1200 @ .15 ESP			1400 @ .20 ESP			1550 @ .20 ESP		
Filter Sizes (inches) STD.	1 - 16x20x1 & 1 - 16x16x1			1 - 16x16x1 & 1 - 16x25x1			1 - 16x16x1 & 1 - 16x25x1		
SHIPPING WEIGHT – LBS.	570			600			600		

Factory Built-in Electric Heat Table

Nominal KW	At 240V ①				At 208V ①				At 480V ②			At 460V ②		
	KW	1-Ph Amps	3-Ph. Amps	BTUH	KW	1-Ph Amps	3-Ph. Amps	BTUH	KW	3-Ph. Amps	BTUH	KW	3-Ph. Amps	BTUH
5.0	5.0	20.8		17,065	3.75	18.0		12,799						
6.0	6.0		14.4	20,478	4.50		12.5	15,359	6.0	7.2	20,478	5.52	6.9	18,840
9.0	9.0		21.7	30,717	6.75		18.7	23,038	9.0	10.8	30,717	8.28	10.4	28,260
10.0	10.0	41.7		34,130	7.50	36.1		25,598						
12.0	12.0		28.9	40,956	9.00		25.0	30,717	12.0	14.4	40,956	11.04	13.9	37,680
15.0	15.0	62.5	36.1	51,195	11.25	54.1	31.2	38,396	15.0	18.0	51,195	13.80	17.3	47,099

① These electric heaters are available in 230/208V units only.

② These electric heaters are available in 480V units only.

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Supersedes S3407-816

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Indoor Blower Performance

Model	Rated ESP	① Max. ESP	② Rated CFM	③ Optional CFM	④ Continuous CFM	⑤ Dehumidification CFM	CFM @ Max. ESP
Q24H ⑥	0.10	0.5	800	N/A	800	800	700
Q30H	0.15	0.8	1000	N/A	1000	1000	910
Q36H	0.15	0.8	1200	1000	1000	1000	1175
Q42H	0.15	0.8	1200	1000	1000	1000	1175
Q48H	0.20	0.8	1400	1250	1100	1250	1175
Q60H	0.20	0.8	1550	1250	1100	1250	1400

Note: These units are equipped with a variable speed (ECM) indoor motor that automatically adjusts itself to maintain approximately the same rate of indoor airflow in both heating and cooling, dry and wet coil conditions and at both 230/208 or 460 volts.

- ① Max. ESP (inches WC) shown is with 1" thick disposable filter (reduced by .2 for 2" filter)
- ② Rated CFM (based on ducted application) for heating and cooling operation. To obtain full rated CFM on models Q36H, Q42H, Q48H and Q60H, refer to Installation Instruction supplied with unit.
- ③ Reduced indoor airflow option to provide lowest possible indoor air sound level. Reduces system capacity performance by approximately 2%.
- ④ Continuous fan CFM is the total air being circulated during continuous fan mode.
- ⑤ Applies to Dehumidification models only. Indoor airflow during periods of high humidity when system is operating under control of optional humidistat for maximum humidity reduction.
- ⑥ Model Q24H -- when operating on 2nd stage heating the indoor air will increase to 1000 CFM.

Ventilation System Packages

Q-TEC models are designed to provide optional ventilation packages to meet all of your ventilation and indoor air quality requirements. All units are equipped with a barometric fresh air damper as the standard ventilation package. All ventilation packages are factory installed.

If there is 1st stage heat call during dehumidification operation heat pump mode is inhibited, the electric heat normally controlled by 2nd stage heat moves up to 1st stage control point, and the airflow will automatically go to the Rated CFM.

BAROMETRIC FRESH AIR DAMPER

STANDARD

The barometric fresh air damper is a standard feature on all models. It allows outside ventilation air, up to 25% of the total airflow rating of the unit, to be introduced through the air inlet openings and to be mixed with the conditioned air. The damper opens during blower operation and closes when the blower is off. Adjustable blade stops allow different amounts of outside air to be introduced into the building and can be easily locked closed if required.

BLANK OFF PLATE

OPTIONAL

A blank off plate covers the air inlet openings which restricts any outside air from entering the unit. The blank off plate should be utilized in applications where outside air is not required to be mixed with the conditioned air.

NOTE: The above vent systems are intake only without built-in exhaust capability. Building will likely require separate field installed barometric relief or mechanical exhaust elsewhere within the conditioned space. Balancing dampers in the return air grille may be required to achieve specified amount of outdoor air intake.

COMMERCIAL ROOM VENTILATOR

OPTIONAL

The built-in commercial room ventilator is internally mounted and allows outside ventilation air, up to 50% of the total airflow rating of the unit, to be introduced through the air inlet openings. It includes a built-in exhaust air damper. The commercial room ventilator (CRV) is a simple and innovative approach to improving the indoor air quality by providing fresh air intake and exhaust capability through the CRV. The damper can be easily adjusted to control the amount of fresh air supplied into the building. The CRV can be controlled by indoor blower operation or field controlled based on room occupancy. Complies with ANSI/ASHRAE Standard 62.1 "Ventilation for Acceptable Indoor Air Quality".

Two Models Available: Spring return on power loss or deactivation - Vent Option V
Power return (will not close on power loss) - Vent Option P

ENERGY RECOVERY VENTILATOR

OPTIONAL

The energy recovery ventilator (ERV) is a highly innovative approach to meeting indoor air quality ventilation requirements as established by ANSI/ASHRAE Standard 62.1. The ERV is internally mounted and allows up to 450 CFM (depending upon speed setting) of fresh air and exhaust through the unit while maintaining superior indoor comfort and humidity levels. In most cases this can be accomplished without increasing equipment sizing or operating costs. Heat transfer efficiency is up to 64% during summer and 79% during winter conditions.

The ERV consists of a unique "rotary energy recovery cassette" that provides effective sensible and latent heat transfer capabilities during summer and winter conditions. Various control schemes are addressed including limiting ventilation during building occupancy only. The ERV has a filter for the exhaust air to keep the rotary wheels clean and free of any debris introduced through the room return air grille. The intake and exhaust rates can be independently selected. Factory set on medium intake and low exhaust.

Commercial Room Ventilator Performance Tables

TABLE 1

Q24H VENTILATION MODE CFM				
Damper Position	Duct Free	Static Pressure		
		0.1	0.3	0.5
A	125	120	100	75
B	135	130	115	100
C	165	160	160	140
D	255	255	235	195
E	375	320	290	265

TABLE 2

Q24H COOLING & HEATING MODE CFM				
Damper Position	Duct Free	Static Pressure		
		0.1	0.3	0.5
A	220	215	200	175
B	245	235	210	185
C	255	260	245	225
D	335	335	330	290
E	385	385	360	320

TABLE 3

Q30H Ventilation Mode CFM Q36H Ventilation Mode CFM Q42H Ventilation Mode CFM Q48H Ventilation Mode CFM				
Damper Position	Duct Free	Static Pressure		
		0.1	0.3	0.5
A	140	135	125	120
B	180	170	160	160
C	220	210	205	195
D	315	315	315	290
E	410	400	385	380

TABLE 4

Q30H COOLING & HEATING MODE CFM Q36H LOW SPEED COOLING & HEATING MODE CFM Q42H LOW SPEED COOLING & HEATING MODE CFM Q48H LOW SPEED COOLING & HEATING MODE CFM				
Damper Position	Duct Free	Static Pressure		
		0.1	0.3	0.5
A	235	230	225	220
B	265	250	245	240
C	325	315	300	290
D	400	400	390	380
E	465	460	445	430

TABLE 5

Q36H HIGH SPEED COOLING & HEATING MODE CFM Q42H HIGH SPEED COOLING & HEATING MODE CFM Q48H HIGH SPEED COOLING & HEATING MODE CFM				
Damper Position	Duct Free	Static Pressure		
		0.1	0.3	0.5
A	255	250	250	230
B	285	280	280	280
C	360	360	350	345
D	445	445	445	440
E	500	500	500	490

TABLE 6

Q60H VENTILATION MODE CFM				
Damper Position	Duct Free	Static Pressure		
		0.1	0.3	0.5
A	185	185	180	180
B	215	215	210	200
C	290	290	280	275
D	370	370	365	350
E	465	465	455	445

TABLE 7

Q60H COOLING & HEATING MODE CFM				
Damper Position	Duct Free	Static Pressure		
		0.1	0.3	0.5
A	235	230	230	215
B	265	260	255	255
C	350	350	345	340
D	470	470	455	450
E	580	570	565	560

NOTE: Ventilation airflow will increase up to 50 CFM during backup or emergency heat operation due to increased total airflow.

Energy Recovery Ventilator Performance Tables

SUMMER COOLING PERFORMANCE (INDOOR DESIGN CONDITIONS 75° DB / 62° WB)

Ambient O.D.	VENTILATION RATE – 450 CFM 65% EFFICIENCY							VENTILATION RATE – 375 CFM 66% EFFICIENCY						VENTILATION RATE – 300 CFM 67% EFFICIENCY					
	DB/WB F	VLT	VLS	VLL	HRT	HRS	HRL	VLT	VLS	VLL	HRT	HRS	HRL	VLT	VLS	VLL	HRT	HRS	HRL
105	75	21465	14580	6884	13952	9477	4475	17887	12150	5737	11805	8018	3786	14310	9720	4590	9587	6512	3075
	70	14580	14580	0	9477	9477	0	12150	12150	0	8018	8018	0	9720	9720	0	6512	6512	0
	65	14580	14580	0	9477	9477	0	12150	12150	0	8018	8018	0	9720	9720	0	6512	6512	0
100	80	31590	12150	19440	20533	7897	12635	26325	10125	16200	17374	6682	10692	21060	8100	12960	14110	5427	8683
	75	21465	12150	9314	13952	7897	6054	17887	10125	7762	11805	6682	5123	14310	8100	6210	9587	5427	4160
	70	12352	12150	202	8029	7897	131	10293	10125	168	6793	6682	111	8235	8100	135	5517	5427	90
	65	12150	12150	0	7897	7897	0	10125	10125	0	6682	6682	0	8100	8100	0	5427	5427	0
	60	12150	12150	0	7897	7897	0	10125	10125	0	6682	6682	0	8100	8100	0	5427	5427	0
95	80	31590	9720	21870	20533	6318	14215	26325	8100	18225	17374	5345	12028	21060	6480	14580	14110	4341	9768
	75	21465	9720	11744	13952	6318	7634	17887	8100	9787	11805	5345	6459	14310	6480	7830	9587	4341	5246
	70	12352	9720	2632	8029	6318	1711	10293	8100	2193	6793	5345	1447	8235	6480	1755	5517	4341	1175
	65	9720	9720	0	6318	6318	0	8100	8100	0	5345	5345	0	6480	6480	0	4341	4341	0
	60	9720	9720	0	6318	6318	0	8100	8100	0	5345	5345	0	6480	6480	0	4341	4341	0
90	80	31590	7290	24300	20533	4738	15794	26325	6075	20250	17374	4009	13365	21060	4860	16200	14110	3256	10854
	75	21465	7290	14175	13952	4738	9213	17887	6075	11812	11805	4009	7796	14310	4860	9450	9587	3256	6331
	70	12352	7290	5062	8029	4738	3290	10293	6075	4218	6793	4009	2784	8235	4860	3375	5517	3256	2261
	65	7290	7290	0	4738	4738	0	6075	6075	0	4009	4009	0	4860	4860	0	3256	3256	0
	60	7290	7290	0	4738	4738	0	6075	6075	0	4009	4009	0	4860	4860	0	3256	3256	0
85	80	31590	4860	26730	20533	3159	17374	26325	4050	22275	17374	2672	14701	21060	3240	17820	14110	2170	11939
	75	21465	4860	16605	13952	3159	10793	17887	4050	13837	11805	2672	9132	14310	3240	11070	9587	2170	7416
	70	12352	4860	7492	8029	3159	4870	10293	4050	6243	6793	2672	4120	8235	3240	4995	5517	2170	3346
	65	4860	4860	0	3159	3159	0	4050	4050	0	2672	2672	0	3240	3240	0	2170	2170	0
	60	4860	4860	0	3159	3159	0	4050	4050	0	2672	2672	0	3240	3240	0	2170	2170	0
80	75	21465	2430	19035	13952	1579	12372	17887	2025	15862	11805	1336	10469	14310	1620	12690	9587	1085	8502
	70	12352	2430	9922	8029	1579	6449	10293	2025	8268	6793	1336	5457	8235	1620	6615	5517	1085	4432
	65	4252	2430	1822	2764	1579	1184	3543	2025	1518	2338	1336	1002	2835	1620	1215	1899	1085	814
	60	2430	2430	0	1579	1579	0	2025	2025	0	1336	1336	0	1620	1620	0	1085	1085	0
75	70	12352	0	12352	8029	0	8029	10293	0	10293	6793	0	6793	8235	0	8235	5517	0	5517
	65	4252	0	4252	2764	0	2764	3543	0	3543	2338	0	2338	2835	0	2835	1899	0	1899
	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LEGEND

VLT = Ventilation Load – Total	HRT = Heat Recovery – Total
VLS = Ventilation Load – Sensible	HRS = Heat Recovery – Sensible
VLL = Ventilation Load – Latent	HRL = Heat Recovery – Latent

WINTER HEATING PERFORMANCE (INDOOR DESIGN CONDITIONS 70°F DB)

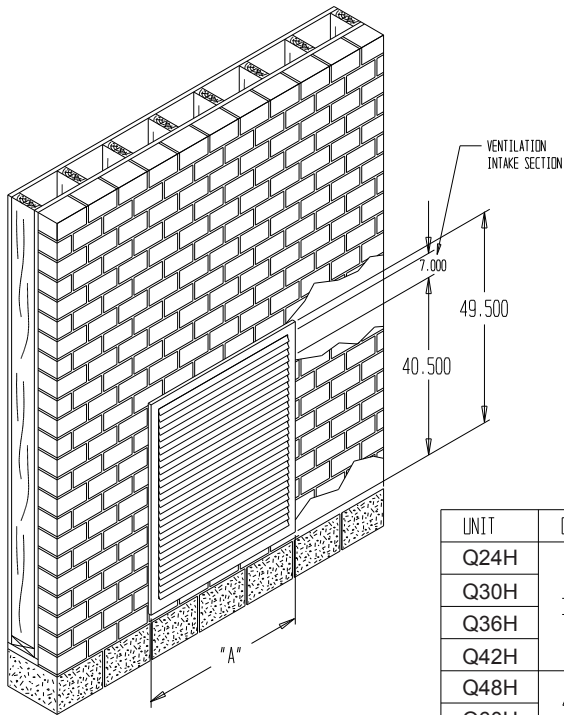
Ambient O.D.	VENTILATION RATE					
	450 CFM 80% EFFICIENCY		375 CFM 81% EFFICIENCY		300 CFM 82% EFFICIENCY	
DB/°F	VLT	VLS	VLT	VLS	VLT	VLS
65	2430	1944	2025	1640	1620	1328
60	4860	3888	4050	3280	3240	2656
55	7290	5832	6075	4920	4860	3985
50	9720	7776	8100	6561	6480	5313
45	12150	9720	10125	8201	8100	6642
40	14580	11664	12150	9841	9720	7970
35	17010	13608	14175	11481	11340	9298
30	19440	15552	16200	13122	12960	10627
25	21870	17496	18225	14762	14580	11955
20	24300	19440	20250	16402	16200	13284
15	26730	21384	22275	18042	17820	14612

LEGEND

WVL = Winter Ventilation Load	WHR = Winter Heat Recovery
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NOTE: Sensible performance only is shown for winter application.

Installation Overview

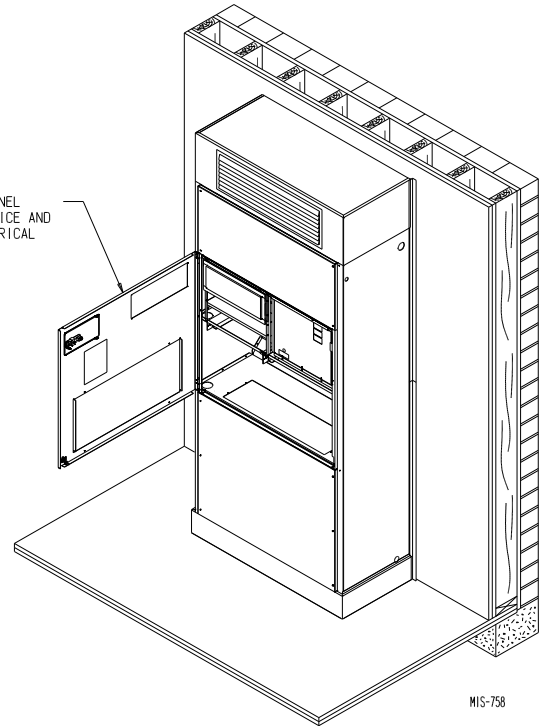


Outside Louver Grille

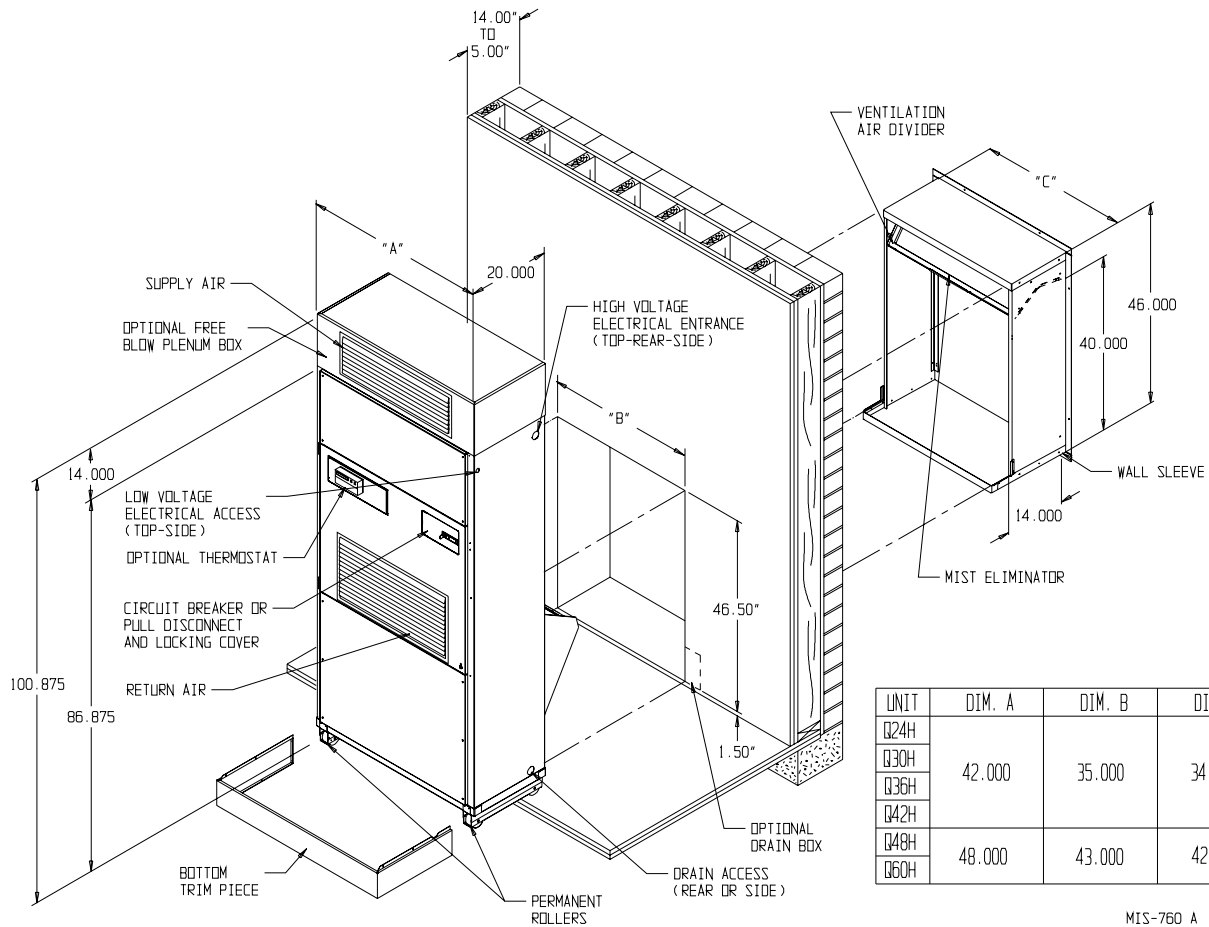
UNIT	DIM. A
Q24H	37.500
Q30H	
Q36H	
Q42H	
Q48H	45.500
Q60H	

MIS-761

HINGED FRONT PANEL FOR FILTER SERVICE AND ACCESS TO ELECTRICAL CONTROLS.



Unit Installed with Duct-Free Plenum Box



UNIT	DIM. A	DIM. B	DIM. C
Q24H	42.000	35.000	34.000
Q30H			
Q36H			
Q42H			
Q48H	48.000	43.000	42.000
Q60H			

MIS-760 A

Electrical Specifications - Standard Models

MODEL	Rated Volts & Phase	No. Field Power Circuits	Single Circuit				Dual Circuit							
			③ Minimum Circuit Ampacity	① Maximum External Fuse or Ckt. Brkr.	② Field Power Wire Size	② Ground Wire	③ Minimum Circuit Ampacity		① Maximum External Fuse or Ckt. Breaker		② Field Power Wire Size		② Ground Wire Size	
							Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B
Q24H2-A0Z A05 A10	230/208-1	1 1 1 or 2	22 47 72	30 50 80	10 8 4	10 10 8	22	50	30	50	10	8	10	10
Q24H2-B0Z B06 B09	230/208-3	1 1 1	17 35 44	20 35 45	12 8 8	12 10 10								
Q24H2-C0Z C06 C09	460-3	1 1 1	10 19 23	15 20 25	14 12 10	14 12 10								
Q30H2-A0Z A05 A10	230/208-1	1 1 1 or 2	25 50 75	35 50 80	8 8 4	10 10 8	25	50	30	50	10	8	10	10
Q30H2-B0Z B06 B09 B12	230/208-3	1 1 1 1	18 37 45 55	25 40 45 60	10 8 8 6	10 10 10 10								
Q30H2-C0Z C06 C09 C12	460-3	1 1 1 1	12 21 25 30	15 25 25 30	14 10 10 10	14 10 10 10								
Q36H2-A0Z A05 A10 ④ A15	230/208-1	1 1 1 or 2 1 or 2	31 56 81 83	45 60 90 90	8 6 4 4	10 10 8 8	31 33	50 50	45 45	50 50	8 8	8 8	10 10	10 10
Q36H2-B0Z B06 B09 ⑤ B15	230/208-3	1 1 1 1	25 43 52 53	30 50 60 60	10 8 6 6	10 10 10 10								
Q36H2-C0Z C06 C09 ⑤ C15	460-3	1 1 1 1	12 21 26 27	15 25 30 30	14 10 10 10	14 10 10 10								
Q42H2-A0Z A05 A10 ④ A15	230/208-1	1 1 1 or 2 1 or 2	34 59 84 84	50 60 90 90	8 6 4 4	10 10 8 8	34 34	50 50	45 45	50 50	8 8	8 8	10 10	10 10
Q42H2-B0Z B06 B09 ⑤ B15	230/208-3	1 1 1 1	25 43 52 53	35 50 60 60	8 8 6 6	10 10 10 10								
Q42H2-C0Z C06 C09 ⑤ C15	460-3	1 1 1 1	13 22 26 27	15 25 30 30	14 10 10 10	14 10 10 10								
Q48H2-A0Z A05 A10 ④ A15	230/208-1	1 1 or 2 1 or 2 1 or 2	38 63 88 88	50 70 90 90	8 6 3 3	10 8 8 8	38 38 38	25 50 50	50 50 50	25 50 50	8 8 8	10 8 8	10 10 10	10 10 10
Q48H2-B0Z B06 B09 ⑤ B15	230/208-3	1 1 1 1	29 47 56 56	40 50 60 60	8 8 6 6	10 10 10 10								
Q48H2-C0Z C06 C09 ⑤ C15	460-3	1 1 1 1	15 24 28 28	20 25 30 30	12 10 10 10	12 10 10 10								
Q60H2-A0Z A05 A10 ⑤ A15	230/208-1	1 1 or 2 1 or 2 1 or 2	45 70 95 95	60 90 100 100	8 4 3 3	10 8 8 8	45 45 45	25 50 50	60 60 60	25 50 50	8 8 8	10 8 8	10 10 10	10 10 10
Q60H2-B0Z B09 ⑤ B15	230/208-3	1 1 1	31 58 58	45 60 60	8 6 6	10 10 10								
Q60H2-C0Z C09 ⑤ C15	460-3	1 1 1	17 31 31	25 35 35	10 8 8	10 10 10								

- ① Maximum size of the time delay fuse or HACR type circuit breaker for protection of field wiring conductors.
- ② Based on 75°C copper wire. All wiring must conform to the National Electrical Code and all local codes.
- ③ These "Minimum Circuit Ampacity" values are to be used for sizing the field power conductors. Refer to the National Electric Code (latest revision), article 310 for power conductor sizing.

CAUTION: When more than one field power conductor circuit is run through one conduit, the conductors must be derated. Pay special attention to note 8 of table 310 regarding Ampacity Adjustment Factors when more than three conductors are in a raceway.

- ④ Maximum KW that can operate with heat pump on is 10KW. Other 5KW energizes during emergency heat only.
- ⑤ Maximum KW that can operate with heat pump on is 9KW. Other 6KW energizes during emergency heat only.

Electrical Specifications - Dehumidification Models

MODEL	Rated Volts & Phase	No. Field Power Circuits	Single Circuit				Dual Circuit							
			③ Minimum Circuit Ampacity	① Maximum External Fuse or Ckt. Brkr.	② Field Power Wire Size	② Ground Wire	③ Minimum Circuit Ampacity		① Maximum External Fuse or Ckt. Breaker		② Field Power Wire Size		② Ground Wire Size	
							Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B
Q24H2DA0Z A05 A10	230/208-1	1 1 1 or 2	22 47 72	30 50 80	10 8 4	10 10 8	22	50	30	50	10	8	10	10
Q24H2DB0Z B06 B09	230/208-3	1 1 1	17 35 44	20 35 45	12 8 8	12 10 10								
Q24H2DC0Z C06 C09	460-3	1 1 1	10 19 23	15 20 25	14 12 10	14 12 10								
Q30H2DA0Z A05 A10	230/208-1	1 1 1 or 2	25 50 75	35 50 80	8 8 4	10 10 8	25	50	30	50	10	8	10	10
Q30H2DB0Z B06 B09 B12	230/208-3	1 1 1 1	18 37 45 55	25 40 45 60	10 8 8 6	10 10 10 10								
Q30H2DC0Z C06 C09 C12	460-3	1 1 1 1	12 21 25 30	15 25 25 30	14 10 10 10	14 10 10 10								
Q36H2DA0Z A05 A10 ④ A15	230/208-1	1 1 1 or 2 1 or 2	31 56 81 83	45 60 90 90	8 6 4 4	10 10 8 8	31 33	50 50	45 45	50 50	8 8	8 8	10 10	10 10
Q36H2DB0Z B06 B09 ⑤ B15	230/208-3	1 1 1 1	25 43 52 53	30 50 60 60	10 8 6 6	10 10 10 10								
Q36H2DC0Z C06 C09 ⑤ C15	460-3	1 1 1 1	12 21 26 27	15 25 30 30	14 10 10 10	14 10 10 10								
Q42H2DA0Z A05 A10 ④ A15	230/208-1	1 1 1 or 2 1 or 2	34 59 84 84	50 60 90 90	8 6 4 4	10 10 8 8	34 34	50 50	45 45	50 50	8 8	8 8	10 10	10 10
Q42H2DB0Z B06 B09 ⑤ B15	230/208-3	1 1 1 1	25 43 52 53	35 50 60 60	8 8 6 6	10 10 10 10								
Q42H2DC0Z C06 C09 ⑤ C15	460-3	1 1 1 1	13 22 26 27	15 25 30 30	14 10 10 10	14 10 10 10								
Q48H2DA0Z A05 A10 ④ A15	230/208-1	1 1 or 2 1 or 2 1 or 2	38 63 88 88	50 70 90 90	8 6 3 3	10 8 8 8	38 38 38	25 50 50	50 50 50	25 50 50	8 8 8	10 8 8	10 10 10	10 10 10
Q48H2DB0Z B06 B09 ⑤ B15	230/208-3	1 1 1 1	29 47 56 56	40 50 60 60	8 8 6 6	10 10 10 10								
Q48H2DC0Z C06 C09 ⑤ C15	460-3	1 1 1 1	15 24 28 28	20 25 30 30	12 10 10 10	12 10 10 10								
Q60H2DA0Z A05 A10 ⑤ A15	230/208-1	1 1 or 2 1 or 2 1 or 2	45 70 95 95	60 90 100 100	8 4 3 3	10 8 8 8	45 45 45	25 50 50	60 60 60	25 50 50	8 8 8	10 8 8	10 10 10	10 10 10
Q60H2DB0Z B09 ⑤ B15	230/208-3	1 1 1	31 58 58	45 60 60	8 6 6	10 10 10								
Q60H2DC0Z C09 ⑤ C15	460-3	1 1 1	17 31 31	25 35 35	10 8 8	10 10 10								

- ① Maximum size of the time delay fuse or HACR type circuit breaker for protection of field wiring conductors.
- ② Based on 75°C copper wire. All wiring must conform to the National Electrical Code and all local codes.
- ③ These "Minimum Circuit Ampacity" values are to be used for sizing the field power conductors. Refer to the National Electric Code (latest revision), article 310 for power conductor sizing.

CAUTION: When more than one field power conductor circuit is run through one conduit, the conductors must be derated. Pay special attention to note 8 of table 310 regarding Ampacity Adjustment Factors when more than three conductors are in a raceway.

- ④ Maximum KW that can operate with heat pump on is 10KW. Other 5KW energizes during emergency heat only.
- ⑤ Maximum KW that can operate with heat pump on is 9KW. Other 6KW energizes during emergency heat only.

Cooling Application Data - Outdoor Temperature °F ① ②

Model	(DB/WB) ③	Cooling Capacity	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°F
Q24H2	75/62	Total Cooling Sensible Cooling	25,300 18,500	24,400 18,300	23,400 18,000	22,600 17,700	21,800 17,500	21,100 17,100	20,500 16,800	19,800 16,400	19,300 16,000
	80/67	Total Cooling Sensible Cooling	27,000 17,900	26,500 17,900	26,000 17,800	25,500 17,700	25,000 17,600	24,600 17,400	24,100 17,200	23,600 16,900	23,200 16,600
	85/72	Total Cooling Sensible Cooling	32,200 18,400	31,000 18,200	29,900 17,900	28,800 17,600	27,800 17,300	26,900 16,900	26,000 16,400	25,100 15,900	24,400 15,300
Q30H2	75/62	Total Cooling Sensible Cooling	30,800 23,000	29,700 22,700	28,500 22,300	27,300 21,800	26,000 21,300	24,700 20,700	23,400 19,900	22,100 19,100	20,700 18,200
	80/67	Total Cooling Sensible Cooling	32,900 22,300	32,300 22,200	31,600 22,100	30,800 21,800	29,800 21,500	28,800 21,000	27,600 20,400	26,300 19,700	24,900 18,900
	85/72	Total Cooling Sensible Cooling	39,200 22,900	37,800 22,600	36,300 22,200	34,800 21,700	33,100 21,100	31,500 20,300	29,800 19,500	28,000 18,500	26,200 17,400
Q36H2	75/62	Total Cooling Sensible Cooling	36,800 28,200	35,300 27,700	33,900 27,100	32,400 26,400	31,000 25,900	29,700 25,300	28,400 24,600	27,200 23,900	25,900 23,300
	80/67	Total Cooling Sensible Cooling	39,300 27,300	38,400 27,100	37,600 26,800	36,600 26,400	35,000 26,100	34,600 25,700	33,500 25,200	32,400 24,700	31,200 24,200
	85/72	Total Cooling Sensible Cooling	46,800 28,000	44,900 27,500	43,200 26,900	41,300 26,200	39,600 25,600	37,900 24,900	36,100 24,000	34,500 23,200	32,800 22,300
Q42H2	75/62	Total Cooling Sensible Cooling	40,500 29,100	38,800 28,500	37,200 27,700	35,600 27,000	34,000 26,300	32,500 25,500	31,000 24,700	29,500 23,900	28,100 23,100
	80/67	Total Cooling Sensible Cooling	43,200 28,200	42,300 27,900	41,300 27,400	40,200 27,000	39,000 26,500	37,800 25,900	36,600 25,300	35,200 24,700	33,800 24,000
	85/72	Total Cooling Sensible Cooling	51,500 28,900	49,500 28,300	47,400 27,600	45,400 26,800	43,300 26,000	41,400 25,100	39,500 24,100	37,500 23,200	35,500 22,100
Q48H2	75/62	Total Cooling Sensible Cooling	46,100 34,300	44,300 33,500	42,600 32,600	40,900 31,900	39,200 31,100	37,600 30,500	36,000 29,800	34,500 29,200	32,900 28,600
	80/67	Total Cooling Sensible Cooling	49,200 33,200	48,300 32,800	47,300 32,300	46,200 31,900	45,000 31,400	43,800 31,000	42,500 30,600	41,100 30,200	39,600 29,700
	85/72	Total Cooling Sensible Cooling	58,600 34,000	56,500 33,300	54,300 32,500	52,200 31,700	50,000 30,800	47,900 30,000	45,800 29,200	43,700 28,300	41,600 27,400
Q60H2	75/62	Total Cooling Sensible Cooling	54,700 39,500	52,700 38,700	50,600 37,800	48,400 36,800	46,200 35,800	44,000 34,600	41,500 33,400	39,200 31,900	36,700 30,600
	80/67	Total Cooling Sensible Cooling	58,400 38,300	57,400 37,900	56,200 37,400	54,700 36,800	53,000 36,100	51,200 35,200	49,000 34,200	46,700 33,000	44,100 31,800
	85/72	Total Cooling Sensible Cooling	69,600 39,200	67,100 38,500	64,600 37,600	61,800 36,600	58,900 35,400	56,000 34,100	52,800 32,600	49,700 31,000	46,400 29,300

- ① Below 65°F, unit requires a factory or field installed low ambient control.
- ② Outdoor temperatures shown are measured at the condenser section air inlet.
- ③ Return air temperature °F.

Heating Application Rating & Outdoor Temperature °F * ②

Model		0°	5°	10°	15°	17°	20°	25°	30°	35°	40°	45°	47°	50°	55°	60°	65°
Q24H2	BTUH	10,200	11,600	13,000	14,500	15,000	15,500	16,300	17,000	17,800	20,200	22,700	23,600	24,500	25,900	27,400	28,800
	WATTS	1,970	2,000	2,040	2,080	2,100	2,100	2,110	2,120	2,130	2,210	2,290	2,320	2,340	2,380	2,420	2,460
	COP	1.52	1.70	1.87	2.05	2.10	2.17	2.27	2.35	2.45	2.68	2.91	3.00	3.07	3.19	3.32	3.44
Q30H2	BTUH	11,900	13,700	15,500	17,300	18,000	18,200	18,600	18,900	19,200	23,200	27,200	28,800	29,900	31,700	33,500	35,300
	WATTS	2,330	2,390	2,440	2,500	2,520	2,550	2,590	2,630	2,660	2,750	2,830	2,860	2,890	2,950	3,000	3,060
	COP	1.50	1.68	1.87	2.03	2.10	2.10	2.11	2.11	2.12	2.48	2.82	3.00	3.04	3.15	3.28	3.39
Q36H2	BTUH	15,200	17,200	19,200	21,200	22,000	22,800	24,100	25,400	26,700	29,800	32,800	34,000	35,200	37,200	39,200	41,200
	WATTS	2,840	2,890	2,930	2,980	2,990	2,990	2,980	2,980	2,970	3,090	3,210	3,250	3,280	3,320	3,370	3,410
	COP	1.57	1.75	1.92	2.09	2.16	2.24	2.37	2.50	2.64	2.83	3.00	3.00	3.15	3.29	3.41	3.55
Q42H2	BTUH	17,100	19,300	21,500	23,800	24,600	25,000	25,500	26,000	26,600	31,300	36,100	38,000	39,400	41,600	43,900	46,100
	WATTS	3,060	3,140	3,210	3,290	3,310	3,320	3,340	3,350	3,360	3,530	3,690	3,760	3,800	3,880	3,950	4,030
	COP	1.64	1.81	1.97	2.12	2.18	2.21	2.24	2.28	2.32	2.60	2.87	3.00	3.04	3.15	3.26	3.36
Q48H2	BTUH	19,500	22,000	24,500	27,000	28,000	28,500	29,300	30,000	30,800	35,900	41,000	42,000	44,500	47,000	49,500	52,000
	WATTS	3,510	3,590	3,660	3,730	3,760	3,770	3,780	3,790	3,800	3,960	4,130	4,190	4,240	4,310	4,380	4,450
	COP	1.63	1.80	1.97	2.13	2.19	2.22	2.28	2.32	2.38	2.66	2.91	3.00	3.08	3.20	3.32	3.43
Q60H2	BTUH	19,800	22,800	25,800	28,800	30,000	31,300	33,400	35,400	37,500	41,900	46,300	48,000	49,800	52,800	55,800	58,800
	WATTS	3,820	3,930	4,030	4,140	4,180	4,280	4,430	4,590	4,750	4,780	4,800	4,810	4,880	4,980	5,090	5,190
	COP	1.52	1.70	1.88	2.04	2.11	2.15	2.21	2.26	2.32	2.57	2.83	3.00	3.00	3.11	3.22	3.32

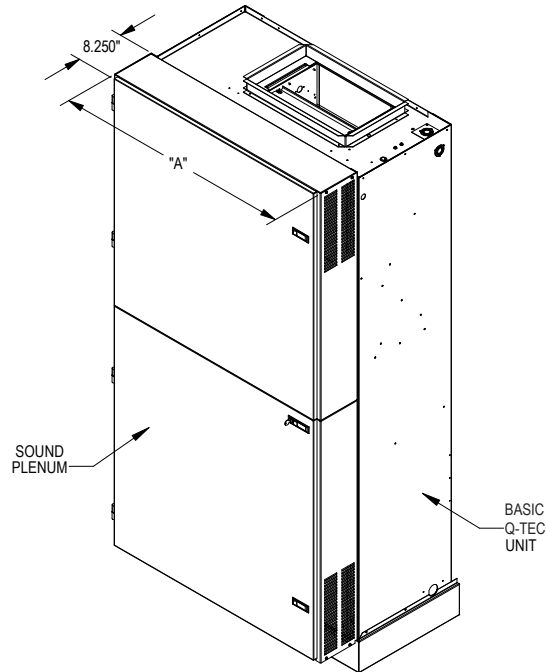
- * 70°F DB indoor return air at rated CFM includes defrost operation below 45°.
- ② Outdoor temperatures shown are measured at the condenser section air inlet.

QSP-Series Sound Plenum

The QSP3 - QSP5 Series Sound Plenum has been designed for use with ALL Bard Q-TEC Series units, both Generation I and Generation II systems. Installation is quick and easy with removal/replacement of six (6) existing screws from the unit cabinet. Once installed the sound plenum enhances the current quiet operation of the Q-TEC Series units, and the hinged door with cam locks provides easy access to the basic Q-TEC system. Model selection is based on equipment cabinet size and finish.

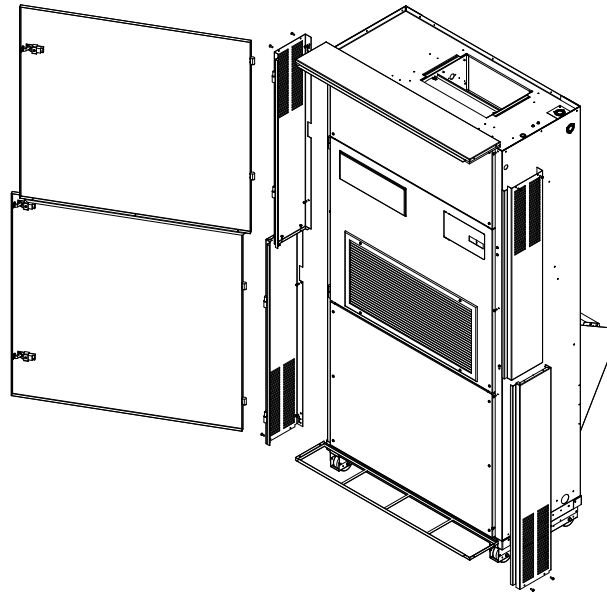
Sound Plenum Part Number	Cabinet Finish	Equipment Selection
QSP3-4 QSP3-V	Painted Steel - Buckeye Gray Texture Vinyl ①	Q24H-36H Q24H-36H
QSP5-4 QSP5-V	Painted Steel - Buckeye Gray Texture Vinyl ①	Q43H-60H Q43H-60H

① Front Panels Slate Finish, Side Panels Platinum Gray matching Q-TEC™ vinyl cabinet finishes.



Features:

- Two Plenum Finishes To Match Unit Cabinets
 - Vinyl or Painted Steel
- Compatible With New or Existing Units
- Removable Cam Lock Hinge Doors
- Easy Unit Service Access
- Sound Absorbing Insulation
- Reduces Equipment dBA Operating Levels
 - Up to 5 dBA with Energy Recovery Ventilator option.
 - Provides general muffling of basic unit operation. Actual sound reduction may vary depending on system operating conditions and other site variables.

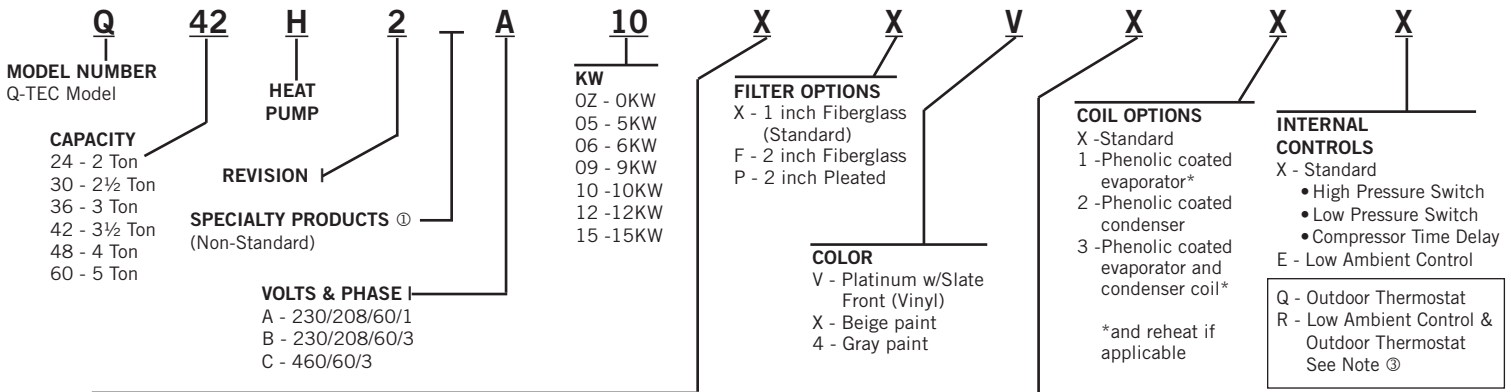


MIS-2267

Unit Charge Rates

UNIT	Std. Unit - Lbs.	Dehum. Units - Lbs.
Q24H2 - 9 EER Heat Pump, 60 Hz	8.0625	7.9375
Q30H2 - 9 EER Heat Pump, 60 Hz	7.875	8.375
Q36H2 - 9 EER Heat Pump, 60 Hz	9.50	10.375
Q42H2 - 9 EER Heat Pump, 60 Hz	9.9375	10.3125
Q48H2 - 9 EER Heat Pump, 60 Hz	11.3125	11.875
Q60H2 - 9 EER Heat Pump, 60 Hz	11.875	13.1875

Q-TEC Model Nomenclature



VENTILATION OPTIONS

- X - Barometric Fresh Air Damper (Standard)
- B - Blank-off Plate
- V - Commercial Ventilator - Motorized w/Exhaust Spring Return
- P - Commercial Ventilator - Motorized w/Exhaust Power Return
- R - Energy Recovery Ventilator w/Independent Intake & Exhaust Control

CLIMATE CONTROL ②

STANDARD UNITS

- X - None ②
- D - Electronic/Prog ③
- H - Electronic/Prog/CO₂ ④
- B - CS9BE-THO (BACnet IP or Ethernet)
- C - CS9BE-THOC w/CO₂ (BACnet IP or Ethernet)

DEHUMIDIFICATION UNITS

- X - None ②
- E - Electronic/Prog/Humidistat ③
- I - Electronic Prog/Humidistat/CO₂ ④
- J - CS9BE-THO (BACnet IP or Ethernet)
- K - CS9BE-THOC w/CO₂ (BACnet IP or Ethernet)

NOTE: ① Insert "D" for dehumidification with hot gas reheat. Reference 7960-582 for complete details.

② If "X" control option is selected, then thermostat and humidistat, if applicable, or DDC control system must be field supplied.

③ Not available with "X" climate control option, and for all other climate control options is a single sensor that functions with unit mounted thermostat.

④ 8403-060 Thermostat.

⑤ 8403-060 Thermostat & 8403-067 CO₂ Controller.

Required Field Installed Accessories - One Size/Color Must Be Used For Each Installation

Outdoor Louver Grilles:

QLS2-10 (for 2 - 3½ Ton Models)	QLS4-10 (for 4 - 5 Ton Models)	Clear Anodized Aluminum
QLS2-20 (for 2 - 3½ Ton Models)	QLS4-20 (for 4 - 5 Ton Models)	Medium Bronze Anodized Aluminum
QLS2-30 (for 2 - 3½ Ton Models)	QLS4-30 (for 4 - 5 Ton Models)	Dark Bronze Anodized Aluminum
QLS2-** (for Custom Finishes)	QLS4-** (for Custom Finishes)	Optional Louver - Custom Finish

Wall Sleeves: Note - Maximum dimension in inches of wall is shown ()

For all 2 through 3½ ton units	QWS42A (14")	QWS42A-16 (16")	QWS42A-19 (19")	QWS42A-20 (20")	QWS42A-23 (23")	QWS42A-30 (30")
For all 4 through 5 ton units	QWS48A (14")	QWS48A-16 (16")	QWS48A-19 (19")	QWS48A-20 (20")	QWS48A-23 (23")	QWS48A-30 (30")

Optional Field Installed Accessories - Additional Items As Determined By Job Specifications

Drain Kit:

- QCDS48A Rear condensate drain system allows easy removal of unit from wall sleeve. **Fits all models.**
- QCDS48H Heated version of QCDS48 for freezing climates. 115 VAC, approximately 20W (requires separate circuit). **Fits all models.**

NOTE: The following accessory items must be selected so that the finish (color) is matched to the QA model that they will be used with.**

Side Trim Extension Kits: (Note: Standard Side Trim Kit supplied with unit covers space up to 4" between interior wall & back of unit.) Unit Compatibility

QSTX42A-V-S10 Platinum vinyl	QSTX42A-4-S10 Gray paint	QSTX42A-X-S10 Beige paint	Up to 9.5" - Normally used in place of standard 4" trim pieces	All models
QSTX42A-V-S13 Platinum vinyl	QSTX42A-4-S13 Gray paint	QSTX42A-X-S13 Beige paint	Up to 12.5" - Normally used in place of standard 4" trim piece	All models
QSTX42A-V-S16 Platinum vinyl	QSTX42A-4-S16 Gray paint	QSTX42A-X-S16 Beige paint	Up to 15.5" - Normally used in place of standard 4" trim piece	All models

Duct-Free Plenum Boxes:

QPB42-V Platinum vinyl	QPB42-4 Gray paint	QPB42-X Beige paint	Front supply, 4-way deflection grille	2 - 3½ Ton
QPBS42-V Platinum vinyl	QPBS42-4 Gray paint	QPBS42-X Beige paint	Same as QPB42, plus 2-way deflection grille on each side	2 - 3½ Ton
QPBS42-V-8 Platinum vinyl	QPBS42-4-8 Gray paint	QPBS42-X-8 Beige paint	Same as QPBS42 and 8" Height ①	2 - 3½ Ton
QPB48-V Platinum vinyl	QPB48-4 Gray paint	QPB48-X Beige paint	Front supply, 4-way deflection grille	4 - 5 Ton
QPBS48-V Platinum vinyl	QPBS48-4 Gray paint	QPBS48-X Beige paint	Same as QPB48, plus 2-way deflection grille on each side	4 - 5 Ton
QPBS48-V-8 Platinum vinyl	QPBS48-4-8 Gray paint	QPBS48-X-8 Beige paint	Same as QPBS48 and 8" Height ①	4 - 5 Ton

Top Fill Systems for Finishing Plenum Boxes to Ceilings:

QPBX42-9-V Platinum vinyl	QPBX42-9-4 Gray paint	QPBX42-9-X Beige paint	Use with QPB42 or QPBS42 (adjusts to ceilings up to 9' 6")	2 - 3 Ton
QPBX42-10-V Platinum vinyl	QPBX42-10-4 Gray paint	QPBX42-10-X Beige paint	Use with QPB42 or QPBS42 (adjusts to ceilings up to 10' 2")	2 - 3 Ton
QPBX48-9-V Platinum vinyl	QPBX48-9-4 Gray paint	QPBX48-9-X Beige paint	Use with QPB48 or QPBS48 (adjusts to ceilings up to 9' 6")	4 - 5 Ton
QPBX48-10-V Platinum vinyl	QPBX48-10-4 Gray paint	QPBX48-10-X Beige paint	Use with QPB48 or QPBS48 (adjusts to ceilings up to 10' 2")	4 - 5 Ton

Cabinet Extensions for Ducted Applications:

QCX10A-V Platinum vinyl	QCX10A-4 Gray paint	QCX10A-X Beige paint	20" height (adjusts for ceilings up to 9' 4"; add QPBX42-9 for 9'4" to 10' finished ceiling heights)	2 - 3½ Ton
QCX15A-V Platinum vinyl	QCX15A-4 Gray paint	QCX15A-X Beige paint	20" height (adjusts for ceilings up to 9' 4"; add QPBX48-9 for 9'4" to 10' finished ceiling heights)	4 - 5 Ton

Hot Water Coils with Plenum Boxes:

QPBHW42-F-V Platinum vinyl	QPBHW42-F-4 Gray paint	QPBHW42-F-X Beige paint	Duct-Free plenum box	2 - 3½ Ton
QPBHW48-F-V Platinum vinyl	QPBHW48-F-4 Gray paint	QPBHW48-F-X Beige paint	Duct-Free plenum box	4 - 5 Ton
QPBHW42-D-V Platinum vinyl	QPBHW42-D-4 Gray paint	QPBHW42-D-X Beige paint	Ducted plenum box	2 - 3½ Ton
QPBHW48-D-V Platinum vinyl	QPBHW48-D-4 Gray paint	QPBHW48-D-X Beige paint	Ducted plenum box	4 - 5 Ton

NOTE: The same top fill system and cabinet extensions can be used with hot water coil plenum boxes as with standard plenum boxes.

① 8" Plenum Box height may affect sound level of supply air and unit.



Bard Manufacturing Company, Inc.
Bryan, Ohio 43506
www.bardhvac.com

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