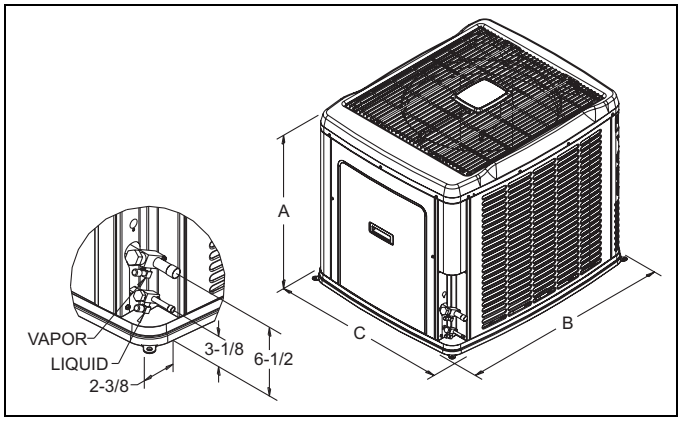
TABULAR DATA SHEET

ECHELON™ SERIES SPLIT SYSTEM HEAT PUMPS
18 SEER – R-410A – 1 PHASE – 2 THRU 5 NOMINAL TONS
MODELS: HC8B024 THRU 060

Physical and Electrical Data

MODEL		HC8B024F4C	HC8B036F4C	HC8B048F4C	HC8B060F4C
Unit Supply Voltage		208-230V, 1ϕ, 60Hz			
Normal Voltage Range [1]		187 to 252			
Minimum Circuit Ampacity		17.5	21.8	29.2	36.9
Max. Overcurrent Device Amps [2]		25	35	50	60
Min. Overcurrent Device Amps [3]		20	25	30	40
Compressor Amps	Type	2-Stage Scroll	2-Stage Scroll	2-Stage Scroll	2-Stage Scroll
	Rated Load	11.8	15.2	21.1	27.3
	Locked Rotor	58	83	104	153
Crankcase Heater		No	No	No	No
Factory External Discharge Muffler		Yes	Yes	Yes	Yes
Factory External Check Valve		No	No	No	No
HS Kit Required with TXV [4]		No	No	No	No
Fan Diameter Inches		24	24	24	24
Fan Motor	Rated HP	1/3	1/3	1/3	1/3
	Rated Load Amps	2.8	2.8	2.8	2.8
	Nominal RPM	685	685	685	685
	Nominal CFM	2990	3345	3300	3460
Coil	Face Area Sq. Ft.	23.6	23.6	23.6	23.6
	Rows Deep	2	2	2	2
	Fins / Inch	16	16	14	14
Liquid Line OD (in) (Field Installed)		3/8	3/8	3/8	3/8
Vapor Line OD (in) (Field Installed)		3/4	3/4	7/8	7/8
Unit Charge (Lbs. - Oz.) [5]		14 - 15	11 - 8	13 - 1	14 - 4
Charge Per Foot, Oz.		0.62	0.62	0.67	0.67
Operating Weight Lbs.		295	295	320	325

1. Rated in accordance with AHRI Standard 110-2012, utilization range “A”.
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. See Hard Start Kit Accessory Installation Manual for Hard Start Kit part number for each model.
5. The Unit Charge is correct for the outdoor unit, smallest matched indoor unit, and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in actual lineset length (not equivalent length) multiplied by the per foot value.



Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A	B	C	Liquid	Vapor
24	40	42-1/4	34	3/8	3/4
36	40	42-1/4	34		
48	40	42-1/4	34		7/8
60	40	42-1/4	34		

All dimensions are in inches and are subject to change without notice.
Overall height is from bottom of base pan to top of fan guard.
Overall length and width include screw heads.

System Charge for Various Matched Systems				
Outdoor Unit	HC8B024F4C	HC8B036F4C	HC8B048F4C	HC8B060F4C
Required TXV[1]	4G1	4G1	4H1	4K1
Indoor Unit[2,3,4]	**TXV Kit [5] - Additional Charge, Oz**			
AHE42D	–	17	–	–
AHE60D	–	–	13	23
AHV24B	0	–	–	–
AHV30B	0	–	–	–
AHV36C	0	0	–	–
AHV42D	–	17	–	–
AHV48D	–	18	0	–
AHV60D	–	–	13	23
FC/MC/PC37	0	0	–	–
FC/MC/PC43	0	0	–	–
FC/MC/PC48	24	17	10	–
FC/MC/PC60	33	18	0	0
FC/MC62	–	44	13	23
FC64	–	55	35	34
UC48	24	17	10	–
UC60	33	18	0	0
Some of the combinations shown in the above System Charge table require Advanced Main Air Circulating Fan indoor product. For approved coil only matches, please see the “COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils” table in the Technical Guide.				

FOOTNOTES:

1. For applications requiring a TXV use S1-1TVM*** series kit.
2. A TXV kit must be used with these indoor units to obtain system performance.
3. Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower Time Delay Kit S1-2FD06700224.
4. PC coils cannot be used in downflow or horizontal applications. FC coils cannot be used in horizontal applications.
5. Refer to Technical Guide for actual performance for specified system matches.

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the outdoor unit, the smallest matched indoor unit, and 15 feet of interconnecting line tubing.
2. Verify the TXV and additional charge required for specific matched indoor unit in the system using the above table.
3. Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in Physical and Electrical Data Table.
4. For indoor matches requiring additional charge, the refrigerant needs to be weighed in for specific matched indoor unit and actual lineset length.
5. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + charge adder for matched indoor unit + charge adder for actual lineset length.

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