

# INSTALLATION INSTRUCTIONS

(TABULAR DATA)

## OUTDOOR SPLIT-SYSTEM HEAT PUMPS 1.5 TO 5 TONS

Supersedes: 515.28-N2.1Y (498)

515.28-N2.1Y (1098)

035-14273

### MODELS E\*FH018 THRU 060 12 SEER

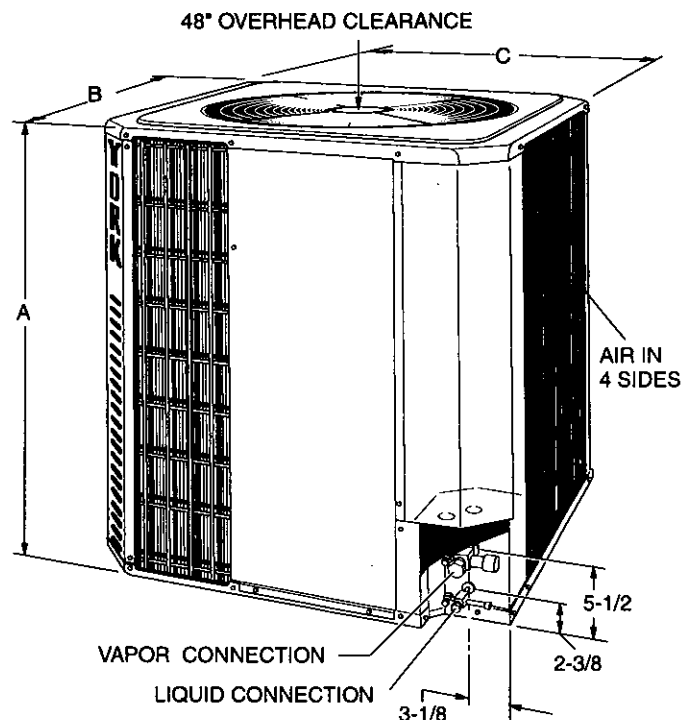
#### PHYSICAL AND ELECTRICAL DATA - (1 Phase)

MODELS		E2FH018	E2FH024	E2FH030	E2FH036	E2FH042	E2FH048	E1FH060
UNIT SUPPLY VOLTAGE		208/230-1-60						
NORMAL VOLTAGE RANGE <sup>1</sup>		187 to 252						
MIN. CIRCUIT AMPACITY		11.5	14.0	16.4	22.1	25.4	32.5	37.8
MAX. OVERCURRENT DEVICE AMPS		20	20	25	35	35	45.0	55.0
COMPRESSOR TYPE		Inertia	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
COMPRESSOR AMPS	RATED LOAD	8.6	10.3	12.2	16.4	19.0	24.7	28.8
	LOCKED ROTOR	48.0	56.0	67.0	88.0	104.0	129.0	169.0
CRANKCASE HEATER		YES	NO	NO	NO	NO	NO	NO
FAN MOTOR AMPS	RATED LOAD	.7	0.9	0.9	1.6	1.6	1.6	1.8
	LOCKED ROTOR	.8	1.8	1.8	3.1	3.1	3.1	3.5
FAN DIAMETER INCHES		24	18	18	24	24	24	24
FAN MOTOR	RATED HP	1/10	1/8	1/8	1/4	1/4	1/4	1/3
	NOMINAL RPM	850	1075	1075	850	850	850	1075
	NOMINAL CFM	2800	2100	2100	3300	3400	3400	4100
COIL	FACE AREA SQ. FT.	20	17.0	17.0	20	24	24	24
	ROWS DEEP	1	1	1	1	1	2	2
	FIN / INCH	16	18	18	16	16	13	13
LIQUID LINE OD		3/8	3/8	3/8	3/8	3/8	3/8	3/8
VAPOR LINE OD		5/8	3/4	3/4	7/8	7/8	1-1/8	1-1/8
OPERATING WEIGHT LBS.		192	163	169	212	237	300	300

<sup>1</sup>Utilization range "A" in accordance with ARI standard 110.

<sup>2</sup>Dual element fuses or HACR circuit breaker.

#### DIMENSIONS



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

UNIT MODEL EFH	DIMENSIONS			REFRIGERANT CONNECTION	
	A	B	C	LINE SIZE	
				LIQUID	VAPOR
018	30	35	35	3/8	5/8
024	36	24	24		3/4
030	36	24	24		7/8
036	30	35	35		7/8
042	36	35	35		7/8
048	36	35	35		7/8**
060	36	35	35		

\*Includes fan guard.

\*\*Valve on 048, 060 is 7/8 with a reducer supplied for the 1-1/8 vapor line.

## R-22 SYSTEM CHARGING PROCEDURE

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of interconnecting line tubing.
2. Verify the orifice size and the additional charge required for the specific evaporator coil in the system using the following table:

OUTDOOR UNIT		ADDITIONAL R-22 CHARGE / ORIFICE SIZE FOR VARIOUS MATCHED SYSTEMS					
FACTORY CHARGE, LBS. - OZ.	INDOOR COIL	ADDITIONAL CHARGE, OZ.					
COIL ORIFICE	COIL	6-4	6-0	6-2	6-14	8-3	14-0
E2FH018	701 + 4	—	—	—	—	—	—
E2FH024	701 + 6	—	—	—	—	—	—
E2FH030	701 + 0	—	—	—	—	—	—
E2FH036	701 + 2	—	—	—	—	—	—
E2FH042	701 + 4	—	—	—	—	—	—
E2FH048	701 + 6	—	—	—	—	—	—
E1FH060	701 + 0	—	—	—	—	—	—

INDOOR COIL		REFRIGERANT LINE ADDER OZ. / FT.					
COIL	ORIFICE	6-4	6-0	6-2	6-14	8-3	14-0
G1UA030S14	701 + 4	—	—	—	—	—	—
G1UA036S14	701 + 6	—	—	—	—	—	—
G1UA036S17/21	701 + 0	—	—	—	—	—	—
G1UA048S17	701 + 2	—	—	—	—	—	—
G1UA048S21/24	701 + 4	—	—	—	—	—	—
G1UA060S24	701 + 6	—	—	—	—	—	—
G2FD024S(H)17	701 + 0	—	—	—	—	—	—
G2FD030S(H)17	701 + 2	—	—	—	—	—	—
G2FD035S(H)14	701 + 4	—	—	—	—	—	—
G2FD036S(H)17, 21	701 + 6	—	—	—	—	—	—
G2FD042S(H)21	701 + 0	—	—	—	—	—	—
G2FD046S(H)17	701 + 2	—	—	—	—	—	—
G2FD048S(H)21	701 + 4	—	—	—	—	—	—
G2FD060S(H)24	701 + 6	—	—	—	—	—	—
G2FD061H(H)24	701 + 0	—	—	—	—	—	—
F2RP / F2FP024	701 + 2	—	—	—	—	—	—
F2RP / F2FP030	701 + 4	—	—	—	—	—	—
F2RP / F2FP036	701 + 6	—	—	—	—	—	—
F2RP / F2FP042	701 + 0	—	—	—	—	—	—
F2FP048	701 + 2	—	—	—	—	—	—
F2FP060	701 + 4	—	—	—	—	—	—
FFVP060	701 + 6	—	—	—	—	—	—

\* A TXV kit must be used with these coils to obtain system performance. (701, 702, 703 etc. indicates 1TV0701, 1TV0702, 1TV0703 etc. series) All orifices must be removed from the control device before attaching the TXV.

3. Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
4. Permanently mark the unit nameplate with the total system charge.
5. Total System Charge = Base charge (as shipped) + adder for evaporator + adder for line set.
6. If the orifice in the evaporator was changed verify the evaporator nameplate has been marked with the correct orifice size.



Heating and Air Conditioning

