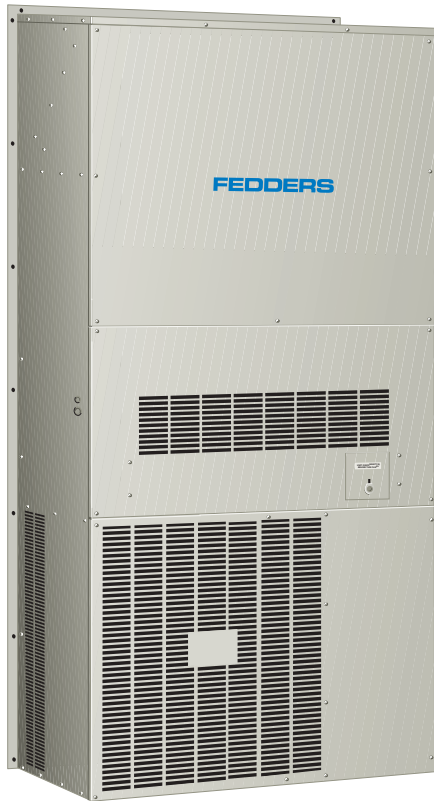


H High Efficiency Series Wallmounted Heat Pump



PERFORMANCE:

Efficiency rating of up to 10 SEER and 6.80 hspf.

Cooling capacities from 24,000 to 34,000.

Refrigerant heating capacities from 23,000 to 35,400.

Electric heat available from 5 to 15 kw.

208-230 volt single or three phase and 460 volt three phase models available.

A.R.I. performance-certified, UL and C-UL safety certified.

FEATURES:

16- and 20-gauge G-90 galvanized construction, protected by a 1000 hour salt spray, baked-on polyester finish.

Quiet horizontal outdoor fan discharge.

All indoor coils are four rows deep to improve dehumidification. All refrigerant coils are constructed with long-life rifled copper tubing, and enhanced aluminum fins.

Full length side mounting brackets, top rain flashing and sloped rain hood built into cabinet. 14 gauge galvanized bottom mounting bracket provided to assist installation.

Permanently lubricated psc indoor and outdoor motors multi-speed indoor blower motor for ducted or free blow applications.

TXV refrigerant control, integrated defrost control and high-pressure switch standard on all models for added reliability.

Built-in circuit breakers with lockable outside access door on all models (disconnect on 460 volt models).

Large factory-installed filter area for improved filtration; 1" disposable standard or 2" pleated optional.

Barometric damper with washable aluminum outside air filter, standard on all models.

Optional modulating economizer with washable aluminum filter and built-in relief allows up to 100% fresh air.

Plug in options and heater receptacle minimizes field wiring of control options and electric heaters, standard on all models.

H High Efficiency Series

MODEL SPECIFICATIONS H24 THROUGH H36									
MODEL H	24-1	30-1	36-1	24-3	30-3	36-3	24-4	30-4	36-4
COOLING CAPACITY ①	24,000	28,000	34,000	24,000	28,800	34,000	24,000	28,000	34,000
SEER ①	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
HEATING CAPACITY ①	23,000	29,000	35,400	23,000	29,000	35,400	23,000	29,000	35,400
HSPF ①	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
VOLTS/PHASE/HERTZ	208-230 / 1 / 60			208-230 / 3 / 60			460 / 3 / 60		
COMPRESSOR DATA									
TYPE	SCROLL								
RATED LOAD AMPS	11.4	13.7	15.7	7.85	10.0	11.4	3.9	5.0	5.7
LOCK ROTOR AMPS	54	73	93	45	63	77	22.4	31	39
CRANKCASE HEATER	NA								
FAN DATA									
OUTDOOR MOTOR HP/RPM	1/5 / 1075								
FLA	1.5								
FAN BLADE DIA/CFM	20" - 2600								
BLOWER DATA									
INDOOR MOTOR HP/RPM	1/6 / 1075	1/3 / 1075		1/6 / 1075	1/3 / 1075				
FLA	1.5	2.5		1.5	2.5		1.2		
RATED CFM/ESP ②	800 / .23	1000 / .34	1200 / .23	800 / .23	1000 / .34	1200 / .23	750/.26	1000 / .35	1150 / .20
VENTILATION PACKAGES									
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL MODELS								
DAMPER FILTER	WASHABLE ALUMINUM 7" X 29" X 1/4"								
MAX FRESH AIR CFM/% ③	160 / 20%	190 / 19%	250 / 21%	160 / 20%	190 / 19%	250 / 21%	160 / 20%	190 / 19%	250 / 21%
ECONOMIZER (OPTIONAL)	MODULATING ECONOMIZER SYSTEM WITH BUILT IN RELIEF DAMPER								
FRESH AIR RANGE	0 - 100%								
DAMPER FILTER	WASHABLE ALUMINUM 7" X 29" X 1"								
RETURN AIR FILTER	25" X 16" X 1" DISPOSABLE								
WEIGHT SHIPPING/NET	305/282	349/321	352/324	304/282	349/321	352/324	304/282	349/321	352/324

① Rated in accordance with DOE and ARI test standards. ② Includes factory installed filters and wet coils ③ CFM with standard return air filter grille in place. All specifications contained in this brochure are subject to change without notice.

COOLING PERFORMANCE						
UNIT	A.R.I. CERTIFIED RATING				TEMPERATURES IN (°F.) COOLING DATA IN M.B.T.U.H	
		BTUH	SEER	CFM	82	95
H24	TOTAL	24,000	10.0	750	27.0	24.0
	SENSIBLE				18.5	17.8
	WATTS (KW)				2.4	2.6
H30	TOTAL	28,000	10.0	1,000	30.6	28.0
	SENSIBLE				21.9	20.4
	WATTS (KW)				2.8	3.1
H36	TOTAL	34,000	10.0	1,150	37.0	34.0
	SENSIBLE				25.9	25.2
	WATTS (KW)				3.5	3.9

Cooling performance based on 80°F./ DB 67° WB indoor ambient with 0% fresh air. Rated in accordance with A.R.I. and D.O.E. Test Standards.

FACTORY OR FIELD-INSTALLED ELECTRIC HEATERS

(1) MODEL NO. AND ELECTRIC HEATER KW	VOLTS/ PHASE 60 HERTZ	NO. OF FIELD POWER CKTS.	SINGLE-FIELD CIRCUIT				DUAL-FIELD CIRCUIT							
			MINIMUM WIRE AMPACITY	(3) MAX. FUSE OR HACR BREAKER	(7) (8) FIELD POWER WIRE SIZE	GROUND WIRE SIZE	MIN. WIRE AMPACITY		(3) MAX. FUSE OR HVCR BREAKER		(4) (5) FIELD POWER WIRE SIZE		GROUND WIRE SIZE	
							CKT1	CKT2	CKT1	CKT2	CKT1	CKT2	CKT1	CKT2
H24A00	208-240/1	1	17	25	10	10	-	-	-	-	-	-	-	-
3		1	33	40	8	10	-	-	-	-	-	-	-	-
5		1	43	45	8	10	-	-	-	-	-	-	-	-
7		1	54	60	6	10	-	-	-	-	-	-	-	-
10		1 or 2	69	70	4	8	17	54	25	60	10	6	10	10
H30A00	208-240/1	1	24	35	8	10	-	-	-	-	-	-	-	-
3		1	39	50	8	10	-	-	-	-	-	-	-	-
5		1	50	60	6	10	-	-	-	-	-	-	-	-
7		1 or 2	60	70	6	10	24	39	35	40	8	8	10	10
10		1 or 2	76	80	4	8	24	55	35	60	8	6	10	10
15	1 or 2	76	80	4	8	50	55	60	60	6	6	10	10	
H36A00	208-240/1	1	24	35	8	10	-	-	-	-	-	-	-	-
3		1	39	50	8	10	-	-	-	-	-	-	-	-
5		1	50	60	6	10	-	-	-	-	-	-	-	-
7		1 or 2	60	70	6	10	24	39	35	40	8	6	10	10
10		1 or 2	76	80	4	8	24	55	35	60	8	6	10	10
15	1 or 2	76	80	4	8	50	55	60	60	6	6	10	10	
H24A00	208-240/3	1	13	20	12	12	-	-	-	-	-	-	-	-
3		1	22	25	10	10	-	-	-	-	-	-	-	-
6		1	31	35	8	10	-	-	-	-	-	-	-	-
9		1	40	45	8	10	-	-	-	-	-	-	-	-
H30A00	208-240/3	1	17	25	10	10	-	-	-	-	-	-	-	-
3		1	26	30	10	10	-	-	-	-	-	-	-	-
6		1	35	40	8	10	-	-	-	-	-	-	-	-
9		1	44	45	8	10	-	-	-	-	-	-	-	-
11		1	51	60	6	10	-	-	-	-	-	-	-	-
15	1	48	50	8	10	-	-	-	-	-	-	-	-	
H36A00	208-240/3	1	18	25	10	10	-	-	-	-	-	-	-	-
3		1	27	35	8	10	-	-	-	-	-	-	-	-
6		1	36	40	8	10	-	-	-	-	-	-	-	-
9		1	45	50	8	10	-	-	-	-	-	-	-	-
11		1	53	60	6	10	-	-	-	-	-	-	-	-
15	1	48	50	8	10	-	-	-	-	-	-	-	-	
H24A00	460/3	1	7	15	14	14	-	-	-	-	-	-	-	-
3		1	11	15	14	14	-	-	-	-	-	-	-	-
6		1	16	20	12	12	-	-	-	-	-	-	-	-
9		1	20	25	10	10	-	-	-	-	-	-	-	-
H30A00	460/3	1	8	15	14	14	-	-	-	-	-	-	-	-
3		1	13	15	14	14	-	-	-	-	-	-	-	-
6		1	17	20	12	12	-	-	-	-	-	-	-	-
9		1	22	25	10	10	-	-	-	-	-	-	-	-
11		1	25	30	10	10	-	-	-	-	-	-	-	-
15	1	31	35	8	10	-	-	-	-	-	-	-	-	
H36A00	460/3	1	9	15	14	14	-	-	-	-	-	-	-	-
3		1	14	20	12	12	-	-	-	-	-	-	-	-
6		1	18	20	12	12	-	-	-	-	-	-	-	-
9		1	23	25	10	10	-	-	-	-	-	-	-	-
11		1	26	30	10	10	-	-	-	-	-	-	-	-
15	1	32	35	8	10	-	-	-	-	-	-	-	-	

- (1) Heater data is based on 240 and 480 volts AC.
- (2) Maximum unit amps for 208 or 460 volt operation may vary slightly; wire and over current protector sizes will not change from suggested sizes.
- (3) Maximum recommended size of "Time Delay" fuse or HACR circuit breaker.
- (4) Power supply wire size and ground wire sizes are based on AWG. 75C rise, NEC Article 310 and table 310-16.
- (5) Grounded conductors may be two sizes smaller than ungrounded conductors.
- (6) Internal circuit breakers are required when maximum units current exceeds 48 amps. Circuit breakers are optional at extra cost on all units.
- (7) For single power supply conductor, sized per NEC table 310-16.
- (8) Power supply wire 75 C rated COPPER CONDUCTORS ONLY. Any alternate wiring materials/methods MUST meet the National Electric Code.

FACTORY OR FIELD-INSTALLED ELECTRIC HEATERS

HEATER MODEL	BTU* OUTPUT	* AMPS	SHIPPING WEIGHT	APPROVED UNIT AND HEATER COMBINATION								
				24-1	30-1	36-1	24-3	30-3	36-3	24-4	30-4	36-4
EGH05B1	17,062	20.8	15	X	X	X						
EGH07B1	25,594	31.2	16	X	X	X						
EGH10B1	34,125	41.6	16	X	X	X						
EGH15B1	51,187	62.5	18		X	X						
EGH03B3	10,239	7.2	14				X	X	X			
EGH06B3	20,478	14.4	15				X	X	X			
EGH09B3	30,717	21.7	16				X	X	X			
EGH11B3	37,543	26.5	18					X	X			
EGH15B3	51,187	36.1	18					X	X			
EGH03D4	10,239	3.6	15							X	X	X
EGH06D4	20,478	7.2	15							X	X	X
EGH09D4	30,717	10.8	16							X	X	X
EGH11D4	37,543	13.2	18								X	X
EGH15D4	51,187	18.0	18								X	X

* BTU output and current based on 240 volts operation for 208-230 volts models and 480 volts for 460 volts models.

* BTU multiplier for 230 volts operation multiply the listed output by .92, for 208 volts operation multiply by .75 for 460 volts operation multiply by .92.

* Current multiplier - for 230 volts operation multiply the listed amps by .96, for 208 operation multiply by .87 for 460 volts operation multiply by .96.

HEATING PERFORMANCE AT EXTENDED OUTDOOR AMBIENTS

UNIT	A.R.I. CERTIFIED RATING MBTUH						
	BTUH 47°F	C.O.P. 47°F	BTUH 17°F	C.O.P. 17°F	HSPF	CFM	
H24CS1 H24B	23	3.00	12.4	1.90	6.8	750	MBTH COP
H30CS1 H30B	29	3.05	17.8	2.03	6.8	1000	MBTH COP
H36CS1 H36B	35.4	3.10	21.6	2.05	6.8	1150	MBTH COP

Base on 70°F DB indoor ambient with 0% fresh air

FACTORY OR FIELD-INSTALLED CONTROL OPTION MODULES

OPTIONS	SERIES	HIGH PRESSURE CONTROL (a)	LOW PRESSURE CONTROL (a)	LOW AMBIENT CONTROL SCROLL COMPRESSOR	LOW AMBIENT CONTROL RECIP. COMPRESSOR	FIRESTAT (a)	COMPRESSOR TIME DELAY	HARD START KIT	FIELD INSTALLED OPTION KITS
A	(1) V	X					X		OPT-V-A-KIT
B	(2) V H		X				X		OPT-V-B-KIT
C	(3) V			X					OPT-V-C-KIT
D	(4) V				X				OPT-V-D-KIT
E	V					X			OPT-V-E-KIT
F	V	X	X	X			X		OPT-V-F-KIT
G	V	X	X		X		X		OPT-V-G-KIT
H	V	X	X	X		X	X		OPT-V-H-KIT
I	V	X	X		X	X	X		OPT-V-I-KIT
J	V H						X		OPT-V-J-KIT
K	(5) V H							X	OPT-V-K-KIT
T	(1) H		X						OPT-V-T-KIT
U	(1) H			X					OPT-V-U-KIT
W	(1) H		X	X					OPT-V-W-KIT
Y	(1) H		X	X		X			OPT-V-Y-KIT

(a) Alarm option will be installed with High Pressure/Low Pressure/Firestat/Dirty Filter Alarm/Smoke Alarm

(1) High Pressure Control - Standard on Heat Pump

(2) Low Pressure Control - Manual or Auto reset.

(3) Low Ambient Control permits cooling operation down to 0 degrees F for Scroll Compressors.

(4) Low Ambient Control permits cooling operation down to 0 degrees F for Reciprocating Compressors. Crankcase heater installed.

(5) PTCR-3 For 1.5-3 Ton Compressors. PTCR-5 for 3.5-5 Ton Compressors.

(6) Installed in unit return air opening. Factory installed only.

(7) Prevents on H models the simultaneously running of resistance heat and refrigerant heat.

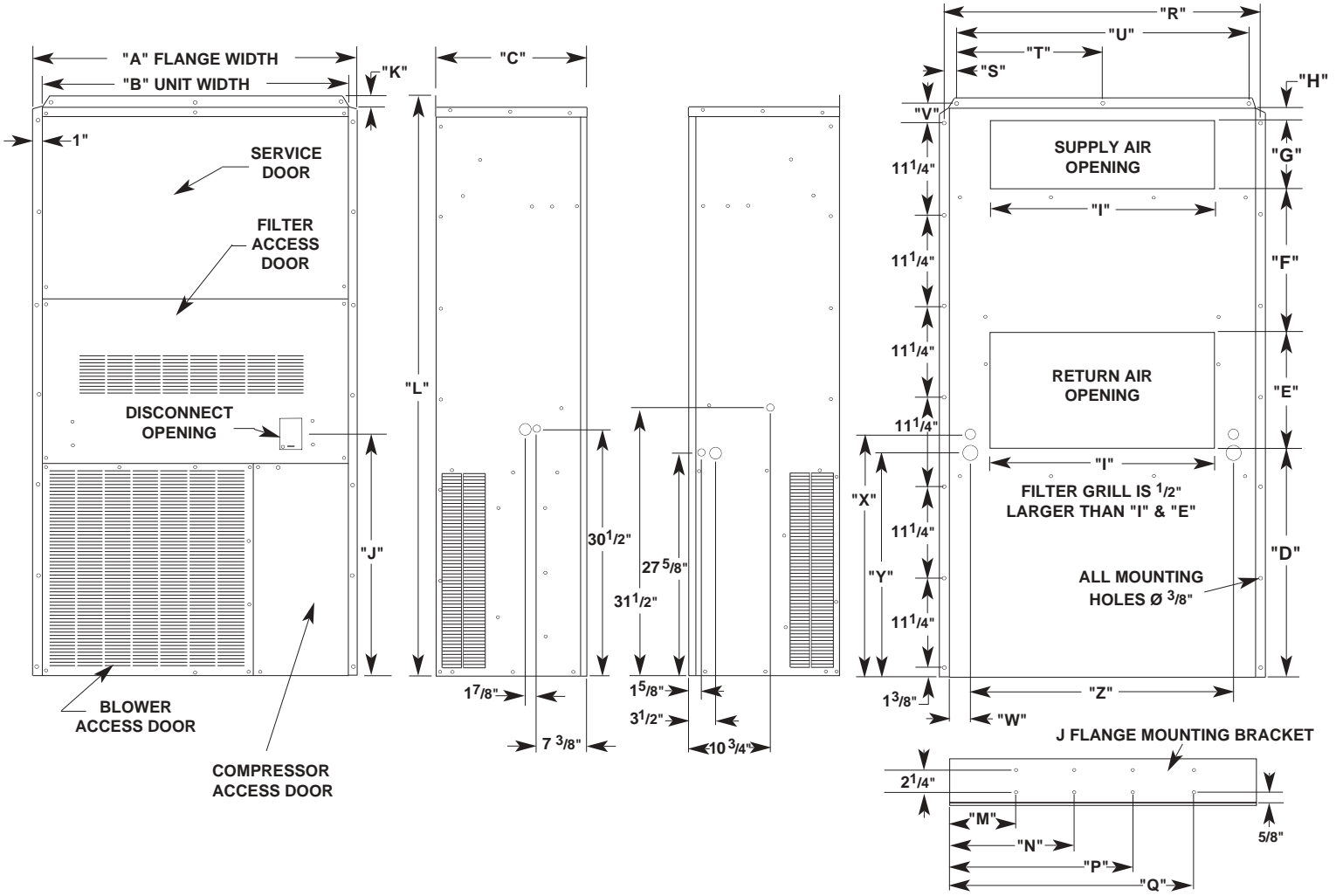
(8) Prevents on H models the resistance heat from running until the outdoor temperature has dropped to the outdoor set point.

(9) Prevents compressor operation after the outdoor thermostat has dropped below the outdoor thermostat set point.

(10) Evaporator Freeze stat H or V.

UNIT DIMENSIONS (INCHES)

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
H24	36	34	18 5/8	28 1/16	12	20 1/2	8	1 7/8	20	28 9/16	1 1/8	71 1/2	2 1/2	10 1/2	18 1/2	26 1/2	34 7/8	1 1/8	16	32	1 15/16	2 9/16	29 1/2	27 1/8	27 5/8
H30/36	40	38	18 5/8	28 1/2	14	18	8	1 7/8	28	28 9/16	1 1/8	71 1/2	2 1/2	10 1/2	18 1/2	26 1/2	39	1 1/4	18 1/4	36 3/8	2	2 9/16	29 1/2	27 1/8	31 5/8



MODEL KEY: Wallmounted Heat Pump

H	36	B	10	A	1	F	D	6	--	N	T
VERTICAL PACKAGE HEAT PUMP	NOMINAL CAPACITY	ELECTRIC HEAT KW	FRESH AIR OPTION	ELECTRICAL CHARACTERISTICS	FILTER TYPE	EXPANSION DEVICE	CONTROL OPTION	COIL COATING	CABINET COLOR		
A- RECIPROCATING B- SCROLL			F- BAROMETRIC DAMPER - STANDARD R- ECONOMIZER READY- STANDARD E- ECONOMIZER PACKAGE N- NO ECONOMIZER OR RELIEF OPENING B- BLANK-OFF PLATE P- POWER ROOM VENTILATOR	1- 208-230, 1PH.60HZ 3- 208-230, 3PH.60HZ 4- 460 VOLT, 3PH.60HZ	D-1" DISPOSABLE W-1" ALUMINUM P-2" PLEATED	6- 1.5-3 TON NONBLEED TXV 8- 3-5 TON NONBLEED TXV	SEE CHART BELOW SECOND LETTER-- (IF NOT USED)	N- NO COATING 1- EPOXY COATED OUTDOOR COIL 2- HERSITE COATED OUTDOOR COIL 3- HERSITE COATED INDOOR COIL 4- HERSITE COATED OUTDOOR & INDOOR COIL	T- TAUPE G- GRAY P- PRIMER B- MESA TAN W- WHITE		

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FEHWS

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