

LabCONTROL

**Product
Data**



Digital Inverter

TEH4 – TEV4

**Variable Refrigerant Flow
Heat Pump / Air Handler**

Sizes 048 thru 360

Air Handling technology at its finest:

Efficient and dependable metering of the refrigerant is provided by an Electronic Expansion Valve, 2000 steps, a device which improves overall system reliability and efficiency.

Aireflex engineered the fan coil with a Boehmited coil dedicated refrigerant circuitry, and high-density insulation.

3-speed motor on sizes 048 through 120, and IE3 Efficiency motors on all other units, or optional IE4 EC Plenum Fans.

All units can switch from cool to heat, according to the installed Outdoor unit. In cool-only systems units can have field or factory installed optional heater package. Our heater package is available from 3 to 30 KW, either fused or with a circuit breaker, or non fused for 10 KW and less.

Compact and attractive with a low maintenance, easy to replace filter on all models. The TEH and TEV are among our most popular models. All models are manufactured in an ISO 9001 facility, under the most strict quality conditions.

When considering affordability and Aireflex solid performance, its easy to see why Aireflex is always preferred.

FEATURES

- Rifled copper tubing
- Lanced sine-wave aluminum fin.
- Prepainted galvanized sheet metal cabinet
- Cooling controls standard with every unit
- Boehmited coil
- 3-speed DD motor in 030 - 120 sizes (Optional 3 phase IE3 motor with pulleys and belt drive).
- IE3 Efficiency motors, 1 KW and Up.
- Metallic condensate pan (with brass drain connection inserts)
- Horizontal or vertical units available
- Easy access filter for cleaning - replacement, no tool required
- High Efficiency Filters Available in “Clean Air” Line.
- EEV: Electronic Expansi3n Valve. 2000 Steps
- Air Flow Switch Included.
- High density insulation
- Sweat connections
- Control Board that connects and transmits to VRF Central Control Board.
- Primary and secondary drain connection with brass inserts
- Optional electronic air cleaning, humidifier, Bipolar Ionizer and Germicidal UV Lamp.
- HUD approved for manufactured housing.
- 40VA transformer.



Model number nomenclature

T E V 4 096 VRF V 3 CA 8+15

Electric Air Handling Heat Pump (indoor)

V-vertical, H-horizontal, D-dual discharge

4 Series ISO 9001 Certified

Nominal Capacity [kBtu/hr] Variable Refrigerant Technology
(Includes 2000 Steps EEV and Control & Comm board).

048: 1.600 CFM	096: 3.200 CFM	180: 6.000 CFM	300: 10,000 CFM
060: 2.000 CFM	120: 4.000 CFM	240: 8.000 CFM	360: 12,000 CFM
072: 2.400 CFM	150: 5.000 CFM		

High Efficiency: V: SEER = 19

Voltage Input

3: 220 V; 3 Ph; 60 Hz.	5: 277 V; 1 Ph; 60 Hz.
2: 208 – 230 V; 1 Ph; 60 Hz.	4: 440V; 3 Ph; 60 Hz.
	6: 440 V; 1 Ph; 60 Hz.

CA#+#+#: Clean Air (Indicates Type of prefilters and filters); **UV** = Germicidal Lamp; **BI** = Bipolar Ionizer

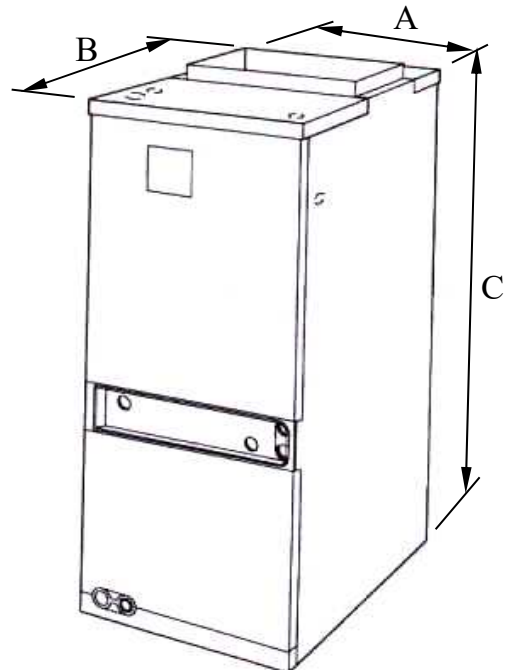
The data in this publication in displayed for all series, however every series may not be available from manufacturer.

Physical Data

MODEL TEV4 - TEH4	O48	O60	O72	O96	120	150	180	240	300	360
Refrigerant	R-410A									
. Refrig Metering Device	EEV (Electronic Expansion Valve - 2000 steps)									
Coil Rows and Fins/in	3 / 13	4 / 13	4 / 13	3 / 13	4 / 13	3 / 13	4 / 13	4 / 13	4 / 13	4 / 13
Face Area (SqFt)	3,89	3,89	5,78	7,78	7,78	12,66	12,66	15,83	20	19,45
CFM (Nominal)	1600	2000	2400	3200	4000	4800	6000	8000	10000	12000
Motor (HP)	1/2	3/4	2 x 1/3	2 x 1/2	2 x 3/4	3	4	5	7,5	7,5

Dimensions

UNIT	A	B	C	Weight (Lb)
O48	22	24 5/8	47 5/8	190
O60	22	24 5/8	47 5/8	205
O72	41 3/4	22 7/8	47 5/8	211
O96	47 1/4	24 7/8	47 5/8	385
120	47 1/4	24 7/8	47 5/8	409
150	70 7/8	31 1/2	68 7/8	646
180	70 7/8	31 1/2	68 7/8	678
240	86 5/8	31 1/2	68 7/8	788
300	88 5/8	31 1/2	74 7/8	825
360	100	31 1/2	77 5/8	930



Electrical Data

OUTDOOR UNIT TEV4 - TEH4	V/PH	MOTOR HP (x QTY)	FLA	BRANCH CIRCUIT			
				MIN WIRE Size AWG	Max Wire Length (Ft)		Fuse Amps
					208V	230V	
O48	208/230/1	1/2	3,3	12	90	100	6,0
O60		3/4	4,6	12	90	100	6,0
O72		1/3 x 2	4,8	12	90	100	6,0
O96		1/2 x 2	6,6	12	80	92	10,0
120		3/4 x 2	9,2	12	80	92	16,0
150	208/230/3	3	8	12	80	92	10,0
180		4	10,9	12	80	92	16,0
240		5	13	12	80	92	16,0
300		7,5	17,6	10	80	92	25,0
360		7,5	19,4	10	80	92	25,0

1. Performance data at 440 (416-460V) is equivalent to 50% of all the indicated amps for 220 (208-230 V).
2. Equipment working out of this voltage range will loose manufacturers and dealers warranty.

High Efficiency Centrifugal Fans



Direct Drive Motor
on centrifugal fan DIDW
In Units up to 10 tons.



IE3 Motor and Belt Driven
Centrifugal fan DIDW
In 12,5 Tons and above.



IE4 EC Plenum Fan
(Optional in all sizes).
Includes Air flow measuring
port and Constant Volume
Control Interphase, to control
fan speed and keep
programmed air flow.

Advanced VRF Option:

All Units are equipped with our latest Variable Refrigerant Technology, to achieve up to 19 SEER efficiencies.

This feature consists of an advanced Electronic Expansion Valve, a Micro controller interphase and a Room Controller (Thermostat).

Along with this option, a Central control panel can be incorporated in the system, from which the user can program schedules and setpoints, and can consult operation variables.



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