

# Tranquility® Vertical Dedicated Outdoor Air (TO) Series

*Models TOVO4 - 30, 60Hz - HFC - 410A*

ClimateMaster Dedicated Outdoor Air Systems (TO) Series provides the most complete solution for your water-source application. Our many options and configurations allow

the design for outdoor air requirements to be incorporated into the water loop system, further enhancing the advantages of a WSHP application. The ability to precisely control leaving air dew point temperature in summer, handle extremely cold entering air temperatures in winter, and perform at part load conditions give designers unmatched flexibility in building design, Indoor Air Quality (IAQ) and energy efficiency.

## Advantages of the Vertical Dedicated Outdoor Air (TO) Series:

- Leaving Air Temperature Control
- Supply air temperature controlled to  $\pm 0.2^{\circ}\text{F}$  ( $\pm 0.1^{\circ}\text{C}$ )
- Substantial energy savings and ASHRAE 90.1 compliant
- Conditioned outdoor air can be introduced directly into space
- Raised lance fins, rifled tubes maximize moisture removal
- Stainless steel pan minimizes corrosion
- Sloped design avoids hazardous puddling
- State-of-the-art compressor technology for highest efficiency and reliability
- Quiet operation
- Units 8 tons (28kW) and larger, multiple compressors are staged to match the load
- Closed cell foam or polystyrene board in double-wall construction
- Superior to fiberglass insulation – eliminates fiber-release into air
- Meets ASTM mold, mildew, moisture resistance specifications
- Single point connection, including heat – all units
- Dissipates captured heat into water loop
- Unique design - no reversing valve
- Modulating hot gas reheat

## Unit Size

Model		Overall Cabinet		
		W	D	H
04 - 05	in.	34.0	38.9	60.1
	cm	86.4	98.8	152.7
08 - 15	in.	41.9	46.0	80.1
	cm	106.4	116.8	203.5
20 - 30	in.	77.3	61.5	70.0
	cm	196.3	156.2	177.8

# Physical Data

Model	4	5	8	10
Fan motor available H.P.	0.5/1.0/1.5/2.0	0.5/1.0/1.5/2.0	0.5/1.0/1.5	0.5/1.0/1.5/2.0
Blower wheel size	11-04/11-10	11-04/11-10	11-04/11-10	11-10
Compressor type/qty	Scroll, 1 ea.		Scroll 2ea. (1 tandem set)	
Factory charge lb/unit				
HFC-410A Tranquility units	13 [208]	15 [240]	20 [320]	26 416]
Water Connection Size “ O.D.	7/8"	1/18"	1 3/8"	13/8"
Water Flow Rate GPM	17	19	26	34
Water Pressure Drop PSI/Ft	5.3/12.23	4.0/9.23	5.4/12.46	6.6/15.22
Condensate Connection Size	1"	1"	1"	1"
Miscellaneous Data				
Filter qty/size	(1) 25 X 29 X 4	(1) 25 X 29 X 4	(2) 20 X 25 X 4	(2) 20 X 25 X 4
Filter Type	Merv 11, Pleated			
Operating Weight	626	643	940	1002
Shipping Weight	639	666	965	1033

Model	15	20	25	30
Fan motor available H.P.	1.0/1.5/20./3.0	1.0/1.5/20./3.0/5.0/7.5	1.0/1.5/20./3.0/5.0/7.5	1.0/1.5/20./3.0/5.0/7.5
Blower wheel size	11-10/12-12	APAF18-T2	APAF18-T2	APAF18-T2
Compressor type/qty	Scroll 2ea. (1 tandem set)			
Factory charge lb/unit				
<b>HFC-410A</b> Tranquility units	40 [640]	62 [992]	N/A	87 [1392]
Water Connection Size " O.D.	15/8"	25/8"	25/8"	25/8"
Water Flow Rate GPM	49	69	84	102
Water Pressure Drop PSI/Ft	9.4/21.68	6.2/14.30	6.2/14.30	7.1/16.38
Condensate Connection Size	1"	1"	1"	1"
Miscellaneous Data				
Filter qty/size	(4) 20 X 20 X 4	(3) 20 X 24 X 4 (3) 24 X 24 X 4	(3) 20 X 24 X 4 (3) 24 X 24 X 4	(3) 20 X 24 X 4 (3) 24 X 24 X 4
Filter Type	Merv 11, Pleated			
Operating Weight	1401	2467	2652	2771
Shipping Weight	1444	2569	2742	2886