

Tranquility® Dedicated Outdoor Air (TO) Series

Models TO 02 - 060 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 Dedicated Outdoor Air (TO) Series:

- Substantial energy savings
- Conditioned outdoor air can be introduced directly into space
- Raised lance fins, rifled tubes maximize moisture removal
- Very high MRE's (Moisture Removal Efficiency)
- State-of-the-art compressor technology for highest efficiency and reliability
- Quietest operation for less noise
- Over 5 tons (18 kW), multiple compressors are staged to match the load
- Sized for neutral LAT (65 to 80°F, 18 to 27°C)
- Air separation avoids condensate re-vaporization
- Simple ladder logic addresses wide variety of conditions
- System can handle dehumidification, cooling, and heating
- Occupancy contact ensures outdoor air enters only when needed
- Corrosion-resistant galvalume with powder coat finish
- Meets 1000 hour salt spray test
- All serviceable elements accessible from one side of unit
- Double-wall construction
- R-5 insulation
- Forward curved centrifugal blowers

Unit Size

Model		W*	D*	H*
02 - 03	in. (cm)	55.1 (140.0)	123.8 (314.5)	48.6 (123.4)
05	in. (cm)	60.5 (153.7)	130.3 (331.0)	52.6 (133.6)
08	in. (cm)	67.1 (170.4)	137.8 (350.0)	63.1 (160.3)
10	in. (cm)	78.5 (199.4)	140.8 (357.6)	73.4 (186.4)
15	in. (cm)	93.5 (237.5)	153.7 (390.4)	83.6 (212.3)
20 - 25	in. (cm)	96.5 (245.1)	164.2 (417.1)	92.6 (235.2)

*Please refer to product submittal for dimensions on units without wheels

Physical Data

Model Size	2	3	5	8	10	15
Fan Motor Available HP	0.5/1.0	0.5/1.5	0.5/1.5	0.5/1.5	0.5/1.0/3.0	1.0/1.5/5.0
Blower Wheel Size	"7-7"	"90-4"	"10-07"	"11-10"	"11-10"	"12-12"
Compressor Type/Qty	Scroll, 1 each			Scroll (tandem), 2 each		
Number of Refrigerant Circuits	1 Circuit					
Factory Charge lb/unit	5	8	15	20	26	40
Water Connection Size " O.D.	7/8"	7/8"	1 1/8"	1 3/8"	1 3/8"	1 5/8"
Water Flow Rate GPM	7	11	19	26	34	49
Water Pressure Drop PSI/Ft	3.6/8.3	4.1/9.45	4.0/9.23	5.4/12.46	6.6/15.22	9.4/1.68
Condensate Connection Size	1"	1"	1"	1"	1"	1"
Filter Qty/Size	(2) 18X24X4	(2) 18X24X4	(2) 18X24X4	(4) 20X24X4	(4) 20X24X4	(4) 20X24X4
Operating Weight	1124	1148	1293	1954	2093	2491
Shipping Weight	1165	1189	1350	2030	2190	2643

Model Size	20	25	30	36	40	46
Fan Motor Available HP*	1.5/2.0/5.0	2.0/3.0/7.5	3.0/5.0/10.0	3.0/5.0/10.0	3.0/5.0/10.0	3.0/5.0/15.0
Blower Wheel Size*	"15-12"	"15-15"	"15-15"	"15-15"	918	920
Compressor Type/Qty	Scroll (tandem), 2 each			Scroll (2 each tandem), 4 each		
Number of Refrigerant Circuits	1 Circuit			2 Circuits		
Factory Charge lb/unit	62	73	87	110	130	150
Water Connection Size " O.D.	2 5/8"	2 5/8"	2 5/8"	2 5/8"	3 1/8"	3 1/8"
Water Flow Rate GPM	69	84	102	118	137	153
Water Pressure Drop PSI/Ft	6.2/14.30	6.2/14.30	7.1/16.38	7.1/16.38	7.8/18.00	8.2/18.91
Condensate Connection Size	1"	1"	1"	1"	1"	1"
Filter Qty/Size	(6) 18X24X4	(4) 28X30X4	(4) 28X30X4	(9) 20X24X4	(9) 20X24X4	(9) 20X24X4
Operating Weight	2855	3256	3499	4545	4698	4852
Shipping Weight	3042	3478	3753	4846	5033	5247

Model Size	50	56	60
Fan Motor Available HP	5.0/7.5/15	5.0/7.5/15	5.0/7.5/20
Blower Wheel Size	920	920	922
Compressor Type/Qty	Scroll (2 each tandem), 4 each		
Number of Refrigerant Circuits	2 Circuits		
Factory Charge lb/unit	8	8	15
Water Connection Size " O.D.	7/8"	7/8"	1 1/8"
Water Flow Rate GPM	11	11	19
Water Pressure Drop PSI/Ft	10.4/24.00	12.6/29.06	13.3/30.68
Condensate Connection Size	1"	1"	1"
Filter Qty/Size	(9) 25X29X4	(9) 25X29X4	(9) 25X29X4
Operating Weight	5375	5610	5748
Shipping Weight	5768	6072	6210