

Models		TAE/TWE	M05	M10	015	020	031	051	081	101	121	161	201	251	301	351	402	502	602
R407C	TAE	cooling capacity @ 15°C (1) kW	2.2	4.4	7.4	9.2	13.2	20.3	28.7	38.4	45.8	53.5	61.5	78.7	90.4	105.2	121.9	151.5	181.2
		cooling capacity @ 7°C (2) kW	1.6	3.2	5.2	6.7	9.9	14.6	20.8	27.9	33.3	38.3	44.4	57.0	65.8	75.0	87.3	109.1	130.5
		absorbed power @ 15°C (5) kW	0.7	1.3	1.6	2.1	3.2	5.2	7.0	9.2	12.3	11.8	14.2	18.6	23.6	23.1	28.0	38.8	49.3
	TWE	cooling capacity @ 15°C (3) kW	-	-	7.9	9.9	13.9	23.0	32.1	41.5	51.4	58.3	70.0	85.6	99.0	-	-	-	-
		cooling capacity @ 7°C (4) kW	-	-	5.8	7.4	10.8	17.1	24.1	31.4	38.4	43.7	52.4	64.8	74.9	-	-	-	-
		absorbed power @ 15°C (5) kW	-	-	1.4	1.9	2.8	4.2	6.0	8.0	10.0	10.1	11.9	16.1	20.0	-	-	-	-
R22	TAE	cooling capacity @ 15°C (1) kW	2.3	4.6	7.6	9.5	13.6	21.0	29.6	39.6	47.2	55.1	63.4	81.2	93.2	107.8	124.8	155.1	186.1
		cooling capacity @ 7°C (2) kW	1.7	3.3	5.4	6.9	10.2	15.1	21.4	28.7	34.3	39.3	45.7	58.7	67.8	76.7	89.5	111.9	134.4
		absorbed power @ 15°C (5) kW	0.7	1.3	1.6	2.2	3.3	5.3	7.1	9.3	12.4	12.0	14.4	18.9	23.9	23.4	28.4	39.3	50.0
	TWE	cooling capacity @ 15°C (3) kW	-	-	8.1	10.2	14.3	23.7	33.1	42.8	53.0	60.1	72.2	88.2	102.1	-	-	-	-
		cooling capacity @ 7°C (4) kW	-	-	6.0	7.6	11.2	17.6	24.9	32.4	39.5	45.0	54.0	66.9	77.3	-	-	-	-
		absorbed power @ 15°C (5) kW	-	-	1.5	1.9	2.8	4.3	6.1	8.1	10.2	10.3	12.1	16.3	20.3	-	-	-	-
COMPRESSOR	installed power (6) kW	0.85	1.7	2.3	3	4.6	6.7	9.8	12.9	16.2	16.2	2x9.8	2x12.9	2x16.2	2x16.2	4x9.8	4x12.9	4x16.7	
ELECTRIC SUPPLY	V/F/Hz	230/1/50		400/3/50 (13)															
TANK CAPACITY	liters	25	25	60	60	110	110	165	250	250	400	400	400	400	600	600	600	600	
P0 PUMP	water flow (7) m³/h	0.29/1.5	0.56/1.5	0.91/4.8	1.16/4.8	1.72/6.0	2.55/6.0	3.6/9.6	4.84/9.6	6.7/18.0	6.7/18.0	7.7/18.0	9.89/18.0	11.43/30	13.2/42.0	15.1/42.0	18.9/72	22.6/72.0	
	available pressure bar	3.7/1.5	3.3/1.5	3.0/1.9	3.0/1.9	3.0/1.5	2.9/1.9	2.8/1.4	2.6/1.7	2.8/1.4	2.85/1.7	2.8/1.7	2.7/1.7	2.2/0.8	3.75/2.5	3.64/2.1	3.1/1.23	3.1/1.2	
	nominal power kW	0.37	0.37	0.55	0.55	0.75	0.75	0.9	0.9	1.85	1.85	1.85	1.85	1.85	4	4	5.5	5.5	
P1 PUMP	water flow (7) m³/h	-	-	0.93/4.8	1.2/4.8	1.7/4.8	2.6/4.8	3.7/12.6	4.9/12.6	5.9/12.6	6.7/30.0	7.9/30.0	10.1/30.0	11.7/30.0	13.2/33.0	15.4/33.0	19.3/54.0	23.2/54.0	
	available pressure bar	-	-	5.5/3.7	5.5/3.7	5.3/3.6	5.1/3.8	4.9/2.7	4.9/3.4	4.8/3.4	4.7/2.2	4.6/2.2	4.5/2.2	6.5/4.4	6.3/4.4	5.8/2.3	5.9/2.3		
	nominal power kW	-	-	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.7	3.7	3.7	9.2	9.2	11	11		
P15 PUMP	water flow (7) m³/h	-	-	0.93/4.8	1.2/4.8	1.7/5.0	2.6/7.3	3.7/12.6	4.9/12.6	5.9/17	6.7/17	7.9/17	10.1/17	11.7/24	13.2/36	15.4/36	19.3/36	23.2/36	
	available pressure bar	-	-	1.49/0.89	1.47/0.89	1.4/0.73	1.37/0.73	1.63/0.5	1.6/1.1	1.6/0.7	1.6/0.9	1.6/0.9	1.5/0.9	1.5/0.7	1.4/0.78	1.41/0.78	1.33/0.78	1.24/0.78	
	nominal power kW	-	-	0.9	0.9	0.9	0.9	0.75	0.75	0.75	0.75	0.75	1.1	1.5	1.5	1.5	1.5		
AXIAL FANS TAE	number no.	1	1	1	1	1	1	1	2	2	2	2	3	3	2	2	2	2	
	total nominal power (8) kW	0.1/-	0.11/-	0.15/-	0.15/-	0.45/0.34	0.45/0.34	0.65/0.46	0.9/0.68	0.9/0.68	1.3/0.92	1.3/0.92	2.0/1.4	2.0/1.4	3.3/2.1	3.3/2.1	3.3/2.1	3.3/2.1	
	air flow (8) m³/h	1100/-	3000/-	3300/-	2900/-	5900/5100	5500/4800	7900/6500	10800/9000	10400/8600	15800/13000	15800/13000	21800/16800	21300/16500	44000/33000	44000/33000	42300/32000	41600/30600	
	noise level (9) dB(A)	48.2/-	48.2/-	52/-	52/-	47/43	47/43	50/44	49/45	49/45	52/47	52/47	52/49	52/49	60/53	60/53	60/53	60/53	
CENTRIFUGAL FANS TAE	number no.	-	-	-	-	1	1	2	2	2	3	3	3	3	2	2	2	2	
	total nominal power (8) kW	-	-	-	-	1.1	1.1	2.2	2.2	2.2	3.3	3.3	3.3	3.3	8	8	8	8	
	air flow (8) m³/h	-	-	-	-	5900/5100	5500/4800	7900/6500	10800/9000	10400/8600	15800/13000	15800/13000	21800/16800	21300/16500	44000/33000	44000/33000	42300/32000	41600/30800	
	available pressure (8) Pa	-	-	-	-	128/238	157/240	300/310	144/250	168/247	500/550	500/550	360/500	360/500	40/213	40/213	54/213	54/190	
noise level (10) dB(A)	-	-	-	-	57/53	57/53	57/53	60/56	60/56	54/50	54/50	57/53	57/53	61/55	61/55	61/55	61/55		
TWE WATER CONDENSER	nominal water flow (11) m³/h	-	-	0.5	0.7	1	1.7	2.7	3.4	3.8	5.3	5.3	6.3	7.7	-	-	-	-	
water connections BSP	-	-	1 1/4" F	1 1/4" F	1 1/4" F	1 1/2" F	1 1/2" F	1 1/2" F	1 1/2" F	2"	2"	2"	2"	2"	-	-	-	-	
DIMENSIONS	width mm.	744	744	538	538	743	743	743	743	743	860	860	860	860	1258	1258	1258	1258	
	depth mm.	550	550	983	983	1090	1090	1650	1650	1650	2230	2230	2230	2230	3588	3588	3588	3588	
	height mm.	860	860	1125	1125	1350	1350	1350	1350	1350	1900	1900	1900	1900	2210	2210	2210	2210	
WEIGHT	(12) kg.	80	80	127	140	190	215	310	343	365	651	715	750	770	1247	1375	1430	1500	
WATER CONNECTIONS	BSP	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/2"	1.1/2"	1.1/2"	2"	2"	2"	2"	2.1/2"	2.1/2"	2.1/2"	2.1/2"	

CAPACITY CORRECTION FACTORS (indicative values); REFRIGERATING CAPACITY OR HEAT = nominal value x CF1 x CF2 x CF3 x CF4

water outlet temperature °C	-5	0	5	7	10
TAE/TWE Cf1	0.63	0.77	0.93	1	1.1

AMBIENT TEMPERATURE (air) °C	20	25	30	32	35	40
Cf2	1.12	1.07	1.02	1	0.97	0.91

WATER INLET TEMPERATURE (with nominal water flow) °C	20	25	30	35	40
Cf2	1	0.95	0.9	0.85	0.81

SOUND PRESSURE LEVEL AT THE DISTANCE L = dB (A) 10 m + D

ethylene glycol % weight	0	10	20	30	40	50
(14) Cf3	1	0.99	0.98	0.97	0.96	0.94

fans speed	N. S.	L. S.
Cf4	1	0.96

Distance L	1	3	5	10
D	15	9	5	0

Notes:

- Water outlet temp. = 15°C; water DELTA T = 5°C; ambient temperature = 25°C.
- Water outlet temp. = 7°C; water DELTA T = 5°C; ambient temperature = 32°C.
- Water outlet temp. = 15°C; water DELTA T = 5°C; Water inlet temp. = 20°C.
- Water outlet temp. = 7°C; water DELTA T = 5°C; Water inlet temp. = 20°C.
- Absorbed power by the refrigerating compressor.
- Power measured at maximum working pressure conditions.
- 1st number = nominal water flow (ΔT = 5°C); 2nd number = max. water flow. Pressure available to process.

- 1st number = normal speed values; 2nd number = low speed values.
- Sound pressure level in free field at a L=10m distance from the unit at condenser side and at 1.2m from the ground.
- Sound pressure level in free field at a L=10m distance from the unit at condenser side; the values refers to the available pressure indicated.
- With water inlet temperature = 20°C; condensing temperature = 35°C.
- Weight refers to the TAE models with axial fans.
- 015 and 020 models are available with 230V/1Ph/50 Hz electric supply (M15 and M20 versions).
- Adjusted water flow by the percentage of glycol to have a DELTA of 5°C.