

Products general overview

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- 05 Cooling units from -13°F up to +104°F



°F

gpm

inch



01 Universal water and oil temperature control units up to 194°F/302°F

Product	Unit	TT-180	TT-181	TT-188	TT-168 E H
Temperature range					
Medium: Water	°F	194	194	194	194
Medium: Oil	°F	302	302	302	302
Heat transfer medium					
Filling amount max.	US gal.	1.8	1.8	1.8	5.3
Heating capacity					
Medium: Water	BTU/hr	30'709	30'709	30'709	40'946
Medium: Oil	BTU/hr	10'236	10'236	10'236	20'473
Cooling system indirect					
Tubular heat exchanger					
	kW	35	35	35	45
at flow temperature	°F	194	194	194	194
Pump system see diagram					
Typ E: 16 gpm; max. 58 psi; motor 1 HP		●	●	●	●
Typ H: 16 gpm; max. 102 psi; motor 2 HP					●
Suction capacity vacuum	inHg	-	23.17	23.17	23.17
Controller MP-888					
Temperature sensor					FeKo Type J
Connections					
Medium		1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT
Cooling water		3/8" NPT	3/8" NPT	3/8" NPT	3/8" NPT
Dimensions incl. castors L×W×H	inch	26.4×10.2×25.6	26.4×10.2×25.6	26.4×10.2×25.6	28×12.8×30.9
Weight empty approx.	lbs	121	121	121	148
Colour silver grey RAL 7001					

Functions					
Flow control		-	-	●	●
Leakstopper device		-	●	●	●
Mold drain		-	●	●	●
Temperature regulation at the consumer		-	-	-	●
Time-limited water refill		-	-	-	●
Interface controller		-	-	○	○
Automatic refill		●	●	●	●
Level control		●	●	●	●
Visual fault indications		●	●	●	●
Acoustic warning		●	●	●	●
Pressure regulation		-	-	-	-

●	standard	○	optional	-	not possible
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02 Water temperature control units up to 194°F

Product	Unit	TT-170 L	TT-168 E/A H/A	TT168 E/PHE H/PHE TT168 E/A PHE H/A PHE	TT-118 K
Temperature range	°F	194	194	194	194
Heat transfer medium		water	water	water	water
Filling amount max.	US gal.	1.3	5.3	5.3	10.6
Heating capacity	BTU/hr	10'236	61'419	40'946 61'419	61'419 92'128 122'837 153'546
Cooling system		indirect	indirect	indirect	indirect
Tubular heat exchanger	kW	30	45	50	200
Plate heat exchanger	kW			130	400
Direct	kW				
at flow temperature	°F	194	194	194	194
Pump system see diagram					
Typ L: 5 gpm; max. 42 psi; motor 0.36 HP		●			
Typ E: 16 gpm; max. 58 psi; motor 1 HP			●	●	
Typ H: 16 gpm; max. 102 psi; motor 2 HP			●	●	
Typ K: 53 gpm; max. 62 psi; motor 3 HP					●
Typ W: 66-93 gpm; max. 65 psi; motor 5.4 HP					
Typ V: 153 gpm; max. 59 psi; motor 10 HP					
Suction capacity vacuum	inHg	-	23.17	23.17	23.17
Controller	MP-888				
Temperature sensor	FeKo Type J				
Connections					
Medium		3/8" NPT	1/2" NPT	3/4" NPT	1" NPT
Cooling water		3/8" NPT	3/8" NPT	1" NPT	1" NPT
Compressed air		-		-	-
Dimensions incl. castors LxWxH	inch	25.2×7.9×19.3	28×12.8×30.9	38.6×14.4×29.5	48.8×18.9×55.1
Weight empty approx.	lbs	79	148	198	397
Colour	silver grey RAL 7001				

Functions					
Flow control		-	●	●	●
Leakstopper device		-	●	●	●
Mold drain		-	●	●	-
Temperature regulation at the consumer		-	●	●	●
Time-limited water refill		-	●	●	●
Interface controller		-	○	○	○
Automatic refill		●	●	●	●
Level control		●	●	●	●
Visual fault indications		●	●	●	●
Acoustic warning		●	●	●	●
Pressure regulation		-	-	-	-

●	standard	○	optional	-	not possible
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TT-1548 E	TT-108 E	TT-108 K	TT-1500 W	TT-1368 W	TT-1368 V
194	194	194	194	194	194
water	water	water	water	water	water
5.3	5.3	10.6	19.8	18.5/26.4	26.4
40'946	20'473 40'946 61'419	61'419 92'128 122'837 153'546	163'783	81'891 163'783 245'674 327'565	245'674 327'565 491'348
air cooled	direct	direct	direct	indirect	indirect
5					
				400	400
	100	260	285		
158	194	194	176	158	176
●	●				
		●			
			●	●	
					●
23.17	23.17	23.17	-	-	-
MP-888					
FeKo Type J					
3/4" NPT	1/2" NPT	1" NPT	flange DN32/PN16	flange DN32/PN16	flange DN32/PN16
	Inlet 3/8" NPT Outlet 1" NPT	Inlet 1/2" NPT Outlet 1 1/2" NPT	1" NPT	1 1/2" NPT	1 1/2" NPT
-	-	-	1/4" NPT		-
34.3×14.2×36	28×12.8×30.9	49.2×18.9×55.1	63×31.5×61	67.3×31.1×60.6/ 84.7×51.2×76.8	84.7×51.2×76.8
209	148	353	948	1146/1874	2017
silver grey RAL 7001					

●	●	●	●	●	●
●	●	●	-	-	-
●	●	●	●	-	-
●	●	●	-	-	-
-	-	-	-	-	-
○	○	○	○	○	○
-	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
-	-	-	○	○	○

03 Pressurised water temperature control units up to 320°F

Product	Unit	TT-1398 N	TT-142 N	TT-137 N	TT-137 B/BP
Temperature range	°F	284	284	284	320
Heat transfer medium		water	water	water	water
Heating capacity	BTU/hr	20'473	40'946	40'946	40'946
Cooling system		indirect	indirect	indirect + direct	indirect + direct
Tubular heat exchanger	kW	20 @ 284°F	60 @ 284°F	65 @ 284°F	90 @ 320°F
Plate heat exchanger	kW				
Direct	kW			60 @ 122°F	60 @ 122°F
Pump system see diagram					
Typ N: 29 gpm; max. 73 psi; motor 2.4 HP		●	●	●	
Typ B: 20 gpm; max. 94 psi; motor 2.4 HP					●
Typ P: 9.5 gpm; max. 73 psi; motor 1.5 HP					
Typ W: 66 gpm; max. 65 psi; motor 5.4 HP					
with booster pump		-	-	-	●
Suction capacity vacuum	inHg	-	23.17	23.17	23.17
Controller	MP-888				
Temperature sensor	FeKo Type J				
Connections					
Medium		1/2" NPT	3/4" NPT	3/4" NPT	3/4" NPT
Cooling water		3/8" NPT	3/8" NPT	3/8" NPT	3/8" NPT
Compressed air		-	-	1/4" NPT	1/4" NPT
Dimensions incl. castors L×W×H	inch	26.8×12×29.9	34.3×14.2×36	34.3×14.2×36	34.3×14.2×36
Weight empty approx.	lbs	154	236	265	265
Colour	silver grey RAL 7001				

Functions					
Flow control		●	●	●	●
Leakstopper device		-	-	●	●
Pressure relief		●	●	●	●
Mold drain by compressed air		-	-	●	●
Temperature regulation at the consumer		-	-	●	●
Interface controller		○	○	○	○
Automatic refill		●	●	●	●
Level control		●	●	●	●
Visual fault indications		●	●	●	●
Acoustic warning		●	●	●	●

●	standard	○	optional	-	not possible
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TT-138 N	TT138 B/BP	TT-DW160	TT-1358 W
284	320	320	266
water	water	water	water
61'419 81'891	61'419 81'891	30'709 61'419	81'891 163'783
indirect + direct	indirect + direct	indirect	indirect
85 @ 284°F	85 @ 320°F		180 @ 266°F
		40 @ 302°F	400 @ 158°F
60 @ 140°F	60 @ 140°F		
●			
	●		
		●	
			●
-	●	●	-
23.17	23.17	-	-
MP-888 FeKo Type J			
3/4" NPT	3/4" NPT	1/2" NPT	flange DN32
1" NPT	1" NPT	1/2" NPT	1 1/2" NPT
1/4" NPT	1/4" NPT	-	-
48.8×18.9×55.1	48.8×18.9×55.1	29.5×7.1×21.7/ 29.5×11.2×21.7	67.3×31.1×60.6
397	397	121/148	1169
silver grey RAL 7001			

●	●	●	●
●	●	-	-
●	●	●	●
●	●	-	-
●	●	-	-
○	○	○	○
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●

04 Oil temperature control units up to 680°F

Product	Unit	TT-248	TT-288	TT-OIL300	TT-388	TT-388	TT-388
Temperature range	°F	392	482	572	680	680	680
Heat transfer medium		oil	oil	oil	oil	oil	oil
Filling amount	US gal	2.1	2.4	2.4	4/5.5	7.1	18.5
Expansion volume	US gal	1.6	2.9	4.5	4.2	9.5	9.5
Heating capacity	BTU/hr	27'297	27'297	40'946	54'594 81'891	109'188	163'783
Cooling system	indirect						
Tubular heat exchanger	kW	20	60	60	90	160	230
Plate heat exchanger	kW						
at flow temperature	°F	392	482	554	680	680	680
Pump							
Motor	HP	2.4	2.4	2.4	2.4	2.4	2.4
Pump system see diagram							
Typ Z: axial face sealed 26.4 gpm; max. 80 psi		●	●	●	●	●	●
Typ A: magnetic drive 26.4 gpm; max. 80 psi		-	○	○	○	○	○
Typ X: 69 gpm; max. 58 psi							
Typ Y: 53-132 gpm; max. 58 psi							
Suction capacity vacuum	inHg	23.17	23.17	23.17	23.17	23.17	23.17
Controller		MP-888	MP-888	MP-888	MP-888	MP-888	MP-888
Temperature sensor		FeKo Type J	FeKo Type J	FeKo Type J	FeKo Type J	FeKo Type J	FeKo Type J
Connections							
Medium		3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT	1" NPT
Cooling water inlet		1/2" NPT	1" NPT	3/4" NPT	1" NPT	1" NPT	1" NPT
Cooling water outlet		1/2" NPT	1" NPT	3/4" NPT	1" NPT	1" NPT	1" NPT
Water-glycol		-	-				
Compressed air min.	psi	-	-	-	-	-	-
Dimensions incl. castors LxWxH	inch	34.6x14.2x36.2	44.5x15.4x42.1	44.5x15.4x39.2	48.8x18.9x55.1	48.8x18.9x59.1	48.8x28.4x59.1
Weight empty approx.	lbs	265	331	331	205/215	235	335
Colour	silver grey RAL 7001						

Functions							
Flow control		●	●	●	●	●	●
Leakstopper device		●	●	●	●	●	-
Mold drain		●	●	●	●	●	-
Temperature regulation at the consumer		●	●	●	●	●	-
Interface controller		-	○	○	○	○	○
Level control		●	●	●	●	●	●
Visual fault indications		●	●	●	●	●	●
Acoustic warning		●	●	●	●	●	●
Pressure regulation		-	-	-	-	-	-
Double circuit version		-	●	-	●	-	-
●	standard	○	optional	-	not possible		

TT-390	TT-508 X	TT-510 X	TT-708 Y	TT-407 Z	TT-409 Z	TT-410 X	TT-608 Z
680	572	572	572	464	464	464	572
oil	oil	oil	oil	oil	oil	oil	oil
4/5.5	19.8	33	26.4 52.8 52.8	2.9	15.9	19.8	13.2 + 13.2
4.2	19.8	26.4	26.4	4.2	9.5	19.8	19.8
54'594 81'891	163'783	327'565	245'674 409'457 491'348	27'297	81'891	163'783	81'891 163'783
indirect							
90	480	480	600	67	93	150	
				143	150	175	93
680	see diagram	see diagram	see diagram	446 176	446 176	446 176	194
2.4	5.4	5.4	10.1	2.4	2.4	5.4	2.4
●				●	●		●
○							
	●	●					
			●			●	
23.17	-	-					
MP-888	MP-888	MP-888	MP-888	MP-988	MP-988	MP-988	MP-888
FeKo Type J	FeKo Type J	FeKo Type J	FeKo Type J	Pt-100	Pt-100	Pt-100	FeKo Type J
3/4" NPT	flange DN32	flange DN32	flange DN50	3/4" NPT	1" NPT	flange DN32/PN16	3/4" NPT
1" NPT	1 1/2" NPT	1 1/2" NPT	1 1/2" NPT	3/4" NPT	3/4" NPT	1 1/2" NPT	3/4" NPT
1" NPT	1 1/2" NPT	1 1/2" NPT	1 1/2" NPT				
				3/4" NPT	3/4" NPT	1 1/2" NPT	-
-	-	-	-	73	73	73	44
48.8×18.9×55.1	67.3×31.1×60.6	84.7×51.2×76.8	84.7×51.2×76.8	44.9×18.9×55.1	54.3×28.4×59.1	67.3×31.1×60.6	67.3×31.1×60.6
452/474	1'146	1'863	2'425/2'800/2,800	485	750	1301	1191
silver grey RAL 7001							

●	●	●	●	●	●	●	●
●	-	-	-	-	-	-	-
●	-	-	-	-	-	-	-
●	-	-	-	●	●	●	-
○	○	○	○	○	○	○	-
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
-	○	○	●	●	●	●	-
●	-	-	-	-	-	-	-

05 Cooling units from -13°F up to +104°F

Product	Unit	TT-5'500 E	TT-14'500 H	TT-28'500	TT-29'800 WK
Temperature range	°F	+50°F to +104°F	+50°F to +104°F	+50°F to +104°F	-13°F to +77°F
Ambient temperatures	°F	+113°F	+113°F	+113°F	+113°F
Refrigerating agent		R-134a	R-134a	R-134a	R-404a
Heating capacity	BTU/hr	17'061	20'473	30'709	-
Content water tank	US gal.	6.6	13.2	39.6	39.6
Cooling capacity nominal	Rt	1.4	4	8	15.4
Pump system		E	H	CR5-7	CR5-7
Motor	HP	1	2	1.5	2
Pump pressure max.	psi	65	123	73	70
Flow capacity max.	gpm	20	20	38	37
Flow capacity internal max.	gpm				
Compressor	hermetically sealed				
Condenser					
Air-cooled		●	●	●	
Water-cooled		-	○	○	●
Air volume	cfm	1'000	1'677	3'355	-
Power consumption heating/cooling model	kW	6/4	8/5	11.3/6	-/15
Controller		MP-888	MP-888	MP-888	MP-888
Temperature sensor		Pt-100	Pt-100	Pt-100	Pt-100
Connections					
Flow		3/4" NPT	3/4" NPT	1" NPT	1" NPT
Return flow		3/4" NPT	3/4" NPT	1" NPT	1" NPT
Automatic water refill		3/8" NPT	3/8" NPT	3/8" NPT	3/8" NPT
Drain			3/8" NPT	1/2" NPT	1/2" NPT
Cooling water in only if water-cooled			3/4" NPT	3/4" NPT	1" NPT
Cooling water out only if water-cooled			3/4" NPT	1" NPT	1" NPT
Dimensions incl. castors LxWxH	inch	37.4x14.4x29.1	37.4x26x51.2	43.3x31.1x65.4	43.3x31.1x65.4
Weight empty approx.	lbs	254	419	728	882
Colour	silver grey RAL 7001				

Functions					
Flow control		●	●	●	●
Interface controller		○	○	○	○
Version without tank		-	○	○	-

●	standard	○	optional	-	not possible
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TT-54'500	TT-108'000	TT-216'000	TT-300'000
+50°F bis +104°F	+50°F bis +104°F	+50°F bis +104°F	+50°F bis +59°F
+113°F	+113°F	+113°F	-
R-134a	R-134a	R-134a	-
40'946	-	-	-
66	95.1	158.5	-
15.4	30.7	61.4	85.3
CR10-6	CR10-6	CR15-4	CR32-2
3	3	5.4	4
90	87/58	73/51	
66	26/53	53/106	159
	53	132	-
hermetically sealed			-
●	●	●	●
○	○	○	
4'709	2×4'709	4×4'709	4×4'709
18/14	-/35	-/66	6.8
Mp-888	Mp-888	MP-888	○
Pt-100	Pt-100	Pt-100	Pt-100
1 1/4" NPT	1 1/2" NPT	2" NPT	3" NPT
1 1/2" NPT	2" NPT	2" NPT	3" NPT
3/8" NPT	3/8" NPT	3/8" NPT	-
1" NPT	1" NPT	1" NPT	1" NPT
1" NPT	1" NPT	2" NPT	-
1" NPT	1" NPT	2" NPT	-
53.1×41.3×76.8	78.7×51.2×82.3	131.9×51.2×82.3	131.9×51.2×82.3
1290	2557	4497	3086
silver grey RAL 7001			

●	-	-	-
○	○	○	○
○	○	○	-