



PO Box 681807, Houston, TX 77268 / 13231 Champion Forest Drive, Suite #230, / Houston, TX 77069
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COFINAIR S.A.S.
IOCT Line - CTI Certified Cooling Towers
Induced-draft, Counter-flow, Cooling Towers
CTI Certification Validation Number C46C-16R05
January 7, 2026 (Revision 5)

IOCT Series - VAP

VAP-24-24D-MA-110	VAP-24-24D-MK-110	VAP-24-24D-NS-110
VAP-24-24-MA-110	VAP-24-24-MK-110	VAP-24-24-NS-110
VAP-29-24-MA-150	VAP-29-24-MK-150	VAP-29-24-NS-150
VAP-30-30-MA-185	VAP-30-30-MK-185	VAP-30-30-NS-185
VAP-35-30-MA-220	VAP-35-30-MK-220	VAP-35-30-NS-220
VAP-35-35-MA-220	VAP-35-35-MK-220	VAP-35-35-NS-220
VAP-35-35-MA-300	VAP-35-35-MK-300	VAP-35-35-NS-300
VAP-40-40-MA-370	VAP-40-40-MK-370	VAP-40-40-NS-370
VAP-45-45-MA-450	VAP-45-45-MK-450	VAP-45-45-NS-450

See Footnotes, IOCT-VAP Last Pages

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IOCT Series- Zenit

ZTO-x-1-E10-D6-01829-PA-By	ZTO-x-1-E10-D6-01829-PS-By
ZTO-x-2-E10-D6-03629-PA-By	ZTO-x-2-E10-D6-03629-PS-By
ZTO-x-3-E10-D6-05429-PA-By	ZTO-x-3-E10-D6-05429-PS-By
ZTO-x-4-E10-D6-07229-PA-By	ZTO-x-4-E10-D6-07229-PS-By
ZTO-x-5-E10-D6-09029-PA-By	ZTO-x-5-E10-D6-09029-PS-By
ZTO-x-6-E10-D6-10829-PA-By	ZTO-x-6-E10-D6-10829-PS-By
ZTO-x-7-E10-D6-12629-PA-By	ZTO-x-7-E10-D6-12629-PS-By

Significance of Material Designator "x" defined In Footnote 1, last pages.

Significance of Basin Designator "y" defined in Footnote 2, last pages.

IOCT Series- Zenit (Alternate Fan)

ZTO-x-1-E10-D7-01829-PA-By	ZTO-x-1-E10-D7-01829-PS-By
ZTO-x-2-E10-D7-03629-PA-By	ZTO-x-2-E10-D7-03629-PS-By
ZTO-x-3-E10-D7-05429-PA-By	ZTO-x-3-E10-D7-05429-PS-By
ZTO-x-4-E10-D7-07229-PA-By	ZTO-x-4-E10-D7-07229-PS-By
ZTO-x-5-E10-D7-09029-PA-By	ZTO-x-5-E10-D7-09029-PS-By
ZTO-x-6-E10-D7-10829-PA-By	ZTO-x-6-E10-D7-10829-PS-By
ZTO-x-7-E10-D7-12629-PA-By	ZTO-x-7-E10-D7-12629-PS-By

Significance of Material Designator "x" defined In Footnote 1, last pages.

Significance of Basin Designator "y" defined in Footnote 2, last pages.

See Footnotes, IOCT-Zenit, Last Pages



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IOCT Series – TMA-EU-One-Cell Models (12mm Fill)

08-24 (*)	11-131	19-195
08-26 (*)	11-131T	19-195T
08-29 (*)	11-145	19-195G
	11-145T	19-211
08-36 (*)	11-153	19-211T
08-40 (*)	11-153T	19-211G
08-44 (*)		
	14-145	19-189T
08-55 (*)	14-145T	19-189G
08-58 (*)	14-145G	19-248T
08-67 (*)	14-166	19-248G
	14-166T	19-260T
08-76 (*)	14-166G	19-260G
08-76T (*)	14-179	19-288T
08-84 (*)	14-179T	19-288G
08-84T (*)	14-179G	
08-90 (*)		19-218T
08-90T (*)		19-218G
		19-262T
08-96		19-262G
08-96T		19-300T
08-103		19-300G
08-103T		19-316T
08-109		19-316G
08-109T		

Continued, Next Page

Models marked with (*) available with standard fan, only. All other models available with standard fan or Stealth (low-sound) option – See footnote 11, IOCT-TMA-EU, Last Pages



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IOCT Series – TMA-EU-Two-Cell Models (12mm Fill)

20-152	24-289	29-378T
20-152T	24-289T	29-378G
20-168	24-289G	29-498T
20-168T	24-331	29-498G
20-180	24-331T	29-520T
20-180T	24-331G	29-520G
	24-358	29-577T
20-191	24-358T	29-577G
20-191T	24-358G	
20-207		29-436T
20-207T	29-390	29-436G
20-219	29-390T	29-525T
20-219T	29-390G	29-525G
	29-422	29-600T
21-261	29-422T	29-600G
21-261T	29-422G	29-633T
21-276		29-633G
21-276T		
21-291		
21-291T		

IOCT Series – TMA-EU-Three-Cell Models (12mm Fill)

31-392	34-434	39-585
31-392T	34-434T	39-585T
31-435	34-434G	39-585G
31-435T	34-497	39-633
31-458	34-497T	39-633T
31-458T	34-497G	39-633G
	34-537	
	34-537T	
	34-537G	

See Footnotes, Last Pages

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IOCT Series – TMA-EU-One-Cell Models (19mm Fill)

08-24-WF (*)	11-131-WF	19-195-WF
08-26-WF (*)	11-131T-WF	19-195T-WF
08-29-WF (*)	11-145-WF	19-195G-WF
	11-145T-WF	19-211-WF
08-36-WF (*)	11-153-WF	19-211T-WF
08-40-WF (*)	11-153T-WF	19-211G-WF
08-44-WF (*)		
	14-145-WF	19-189T-WF
08-55-WF (*)	14-145T-WF	19-189G-WF
08-58-WF (*)	14-145G-WF	19-248T-WF
08-67-WF (*)	14-166-WF	19-248G-WF
	14-166T-WF	19-260T-WF
08-76-WF (*)	14-166G-WF	19-260G-WF
08-76T-WF (*)	14-179-WF	19-288T-WF
08-84-WF (*)	14-179T-WF	19-288G-WF
08-84T-WF (*)	14-179G-WF	
08-90-WF (*)		19-218T-WF
08-90T-WF (*)		19-218G-WF
		19-262T-WF
08-96-WF		19-262G-WF
08-96T-WF		19-300T-WF
08-103-WF		19-300G-WF
08-103T-WF		19-316T-WF
08-109-WF		19-316G-WF
08-109T-WF		

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IOCT Series – TMA-EU-Two-Cell Models (19mm Fill)

20-152-WF	24-289-WF	29-378T-WF
20-152T-WF	24-289T-WF	29-378G-WF
20-168-WF	24-289G-WF	29-498T-WF
20-168T-WF	24-331-WF	29-498G-WF
20-180-WF	24-331T-WF	29-520T-WF
20-180T-WF	24-331G-WF	29-520G-WF
	24-358-WF	29-577T-WF
20-191-WF	24-358T-WF	29-577G-WF
20-191T-WF	24-358G-WF	
20-207-WF		29-436T-WF
20-207T-WF	29-390-WF	29-436G-WF
20-219-WF	29-390T-WF	29-525T-WF
20-219T-WF	29-390G-WF	29-525G-WF
	29-422-WF	29-600T-WF
21-261-WF	29-422T-WF	29-600G-WF
21-261T-WF	29-422G-WF	29-633T-WF
21-276-WF		29-633G-WF
21-276T-WF		
21-291-WF		
21-291T-WF		

IOCT Series – TMA-EU-Three-Cell Models (19mm Fill)

31-392-WF	34-434-WF	39-585-WF
31-392T-WF	34-434T-WF	39-585T-WF
31-435-WF	34-434G-WF	39-585G-WF
31-435T-WF	34-497-WF	39-633-WF
31-458-WF	34-497T-WF	39-633T-WF
31-458T-WF	34-497G-WF	39-633G-WF
	34-537-WF	
	34-537T-WF	
	34-537G-WF	

See Footnotes, Last Pages

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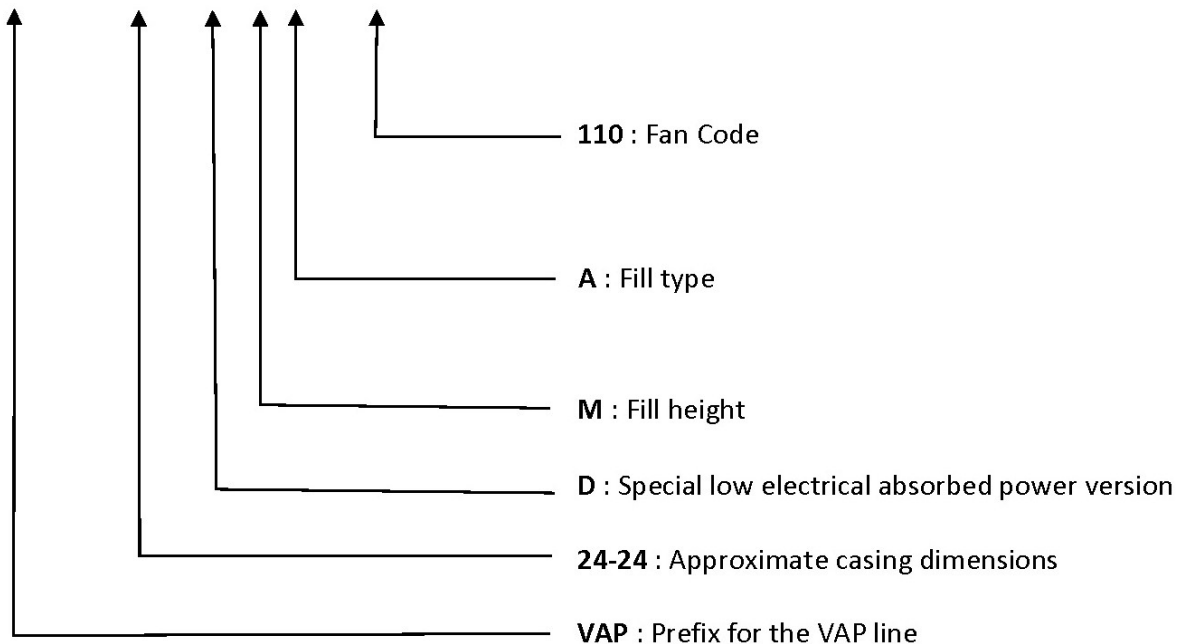
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FOOTNOTES (IOCT – VAP):

1. Cofinair S.A.S. has the following regional subsidiaries, in each case offering the same CTI certified models of the IOCT - VAP line:
 - Decsa srl (address: Via Cappelletta, 1, 1 27058 Voghera, Italy)
 - Jacir (address: 11 Rue Jean Moulin, 77348 Pontault Combault, France)
 - Gohl-KTK (address: Schlosserstr. 5, 76448 Durmersheim, Germany)

Example Model Number:

VAPX-24-24D-MA-110



Note: For standard models, the panels of the casing are made of FRP (Fiberglass Reinforced Polyester). Optional stainless steel panels are also available. In that case, the letter "X" is added just after the prefix VAP.

Footnotes Continued, Next Page

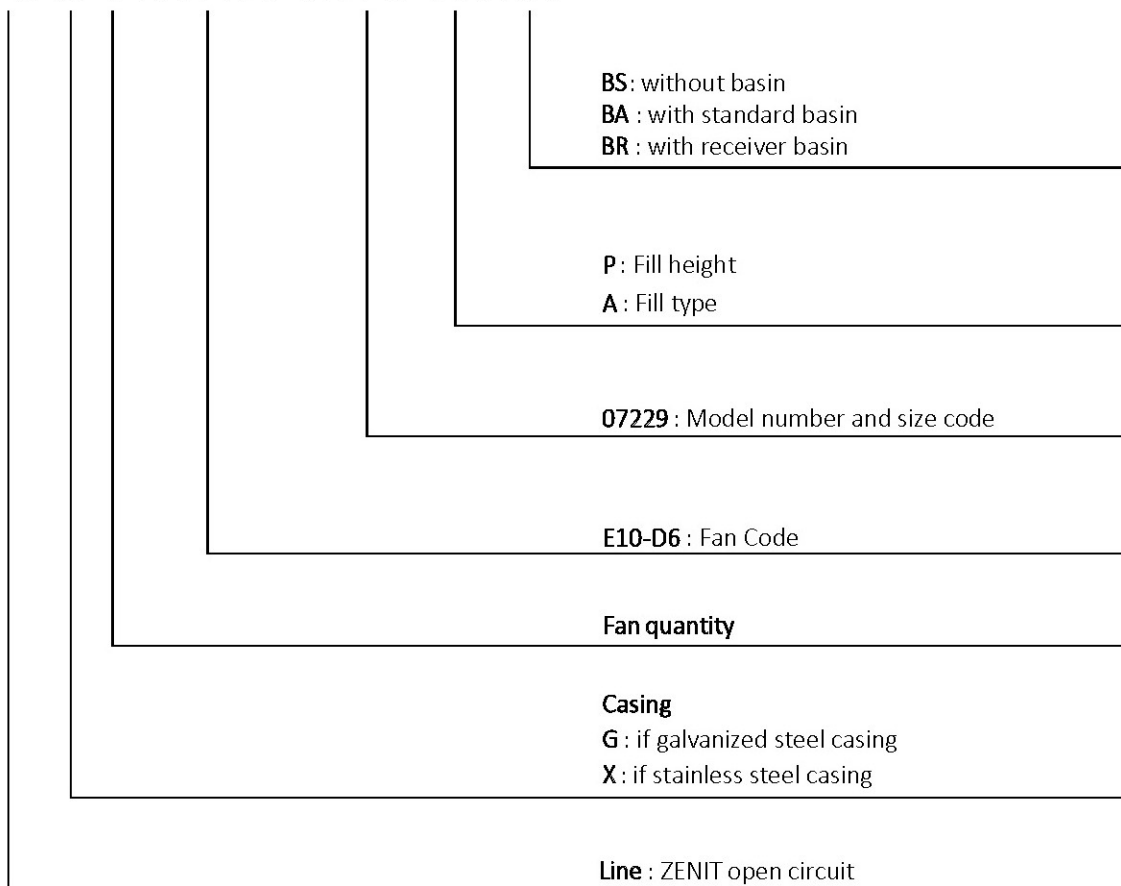
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FOOTNOTES (IOCT – Zenit):

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 - Decsa srl (address: Via Cappelletta, 1, 1 27058 Voghera, Italy)
 - Jacir (address: 11 Rue Jean Moulin, 77348 Pontault Combault, France)
 - Gohl-KTK (address: Schlosserstr. 5, 76448 Durmersheim, Germany)

Example Model Number:

ZTO-X-4-E10-D6-07229-PA-BA



Footnotes Continued, Next Page

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Footnotes (IOCT - TMA-EU):

1. Certification includes units with optional gear drive (suffix G) or belt drive (suffix T) in place of standard direct coupling
2. Certification includes use of optional water silencers.
3. Certification includes use of optional external platforms/ladders for access.
4. Certification includes execution with FRP structural panels (suffix FRP)
5. Certification includes execution with Stainless Steel structural panels (suffix INOX)
6. Certification includes use of galvanized steel air inlet louvers instead of PVC
7. Certification includes execution with air inlet louvers section and exchange section, without basin section (suffix SS+SG)
8. Certification includes execution without air inlet louvers section and basin section when TMA-EU are installed on remote sump, with 1.2m free space from water level and 1.2m free space on sides for air entrance (suffix SS).
9. Certification includes execution with ATEX electric components (suffix ATEX)
10. Certification includes execution with optional two-speed motor. However, certified capacity ratings only applicable for higher speed setting.
11. Certification includes execution with optional Stealth fan (suffix SH). Certified capacity ratings stay the same with either fan choice. However, fan rated power per model may be affected. See manufacturer's published data for details.
12. TMA-EU Models with optional Wave 19 fill media (suffix WF) are included in the certification.
13. TMA-EU Models with splash fill are not certified: "-X" suffix will be added to model (Example: TMA-EU 19-300T-X)
14. Certification includes two optional nozzle types with no impact on the model capacity ratings.
15. Cofinair S.A.S. has the following regional subsidiaries, in each case offering the same CTI certified models of the TMA-EU line:
 - Decsa srl (address: Via Cappelletta, 1, 1 27058 Voghera, Italy)
 - Jacir (address: 11 Rue Jean Moulin, 77348 Pontault Combault, France)
 - Gohl-KTK (address: Schlosserstr. 5, 76448 Durmersheim, Germany)

Certified Model Number Example: TMA-EU 29-378G/FRP SH

TMA-EU – Product Designation

29-378 – Model Number (two-cell model)

G – Optional Gearbox Drive

FRP – Construction with optional FRP Structural Panels

SH – Stealth fan

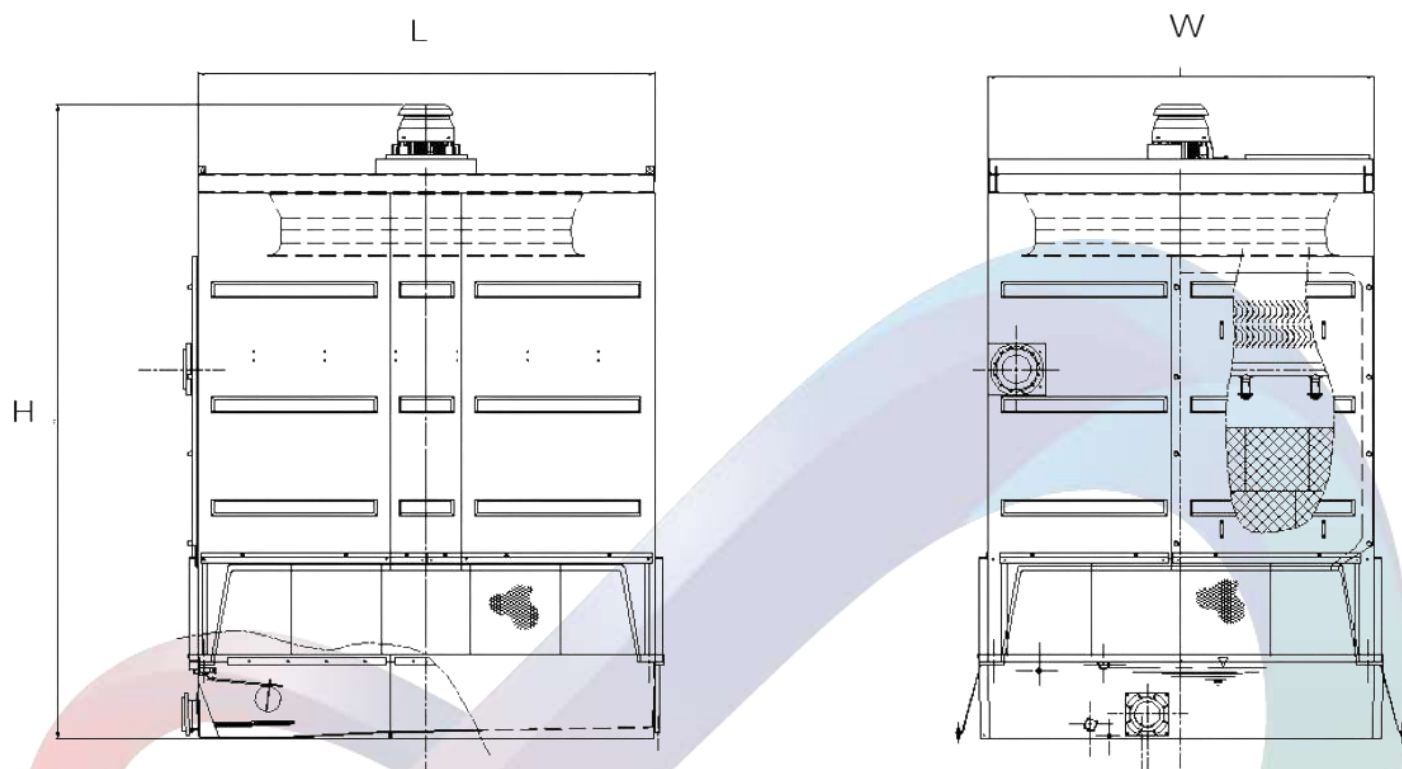
Technical characteristics VAP

VAP(X) series

	Capacity [kW]*			Fans
	xx = MA	xx = MK	xx = NS	Total Rated Power [kW]
VAP(X)-24-24D-xx-110	730	760	720	6.2
VAP(X)-24-24-xx-110	830	860	820	10.3
VAP(X)-29-24-xx-150	1035	1070	1015	13.8
VAP(X)-30-30-xx-185	1350	1400	1330	16.8
VAP(X)-35-30-xx-220	1610	1675	1590	19.4
VAPX-35-35-xx-220	1695	1755	1745	19.1
VAPX-35-35-xx-300	1870	1935	1920	23.9
VAPX-40-40-xx-370	2110	2185	2170	24.4
VAPX-45-45-xx-450	2555	2650	2635	32.5

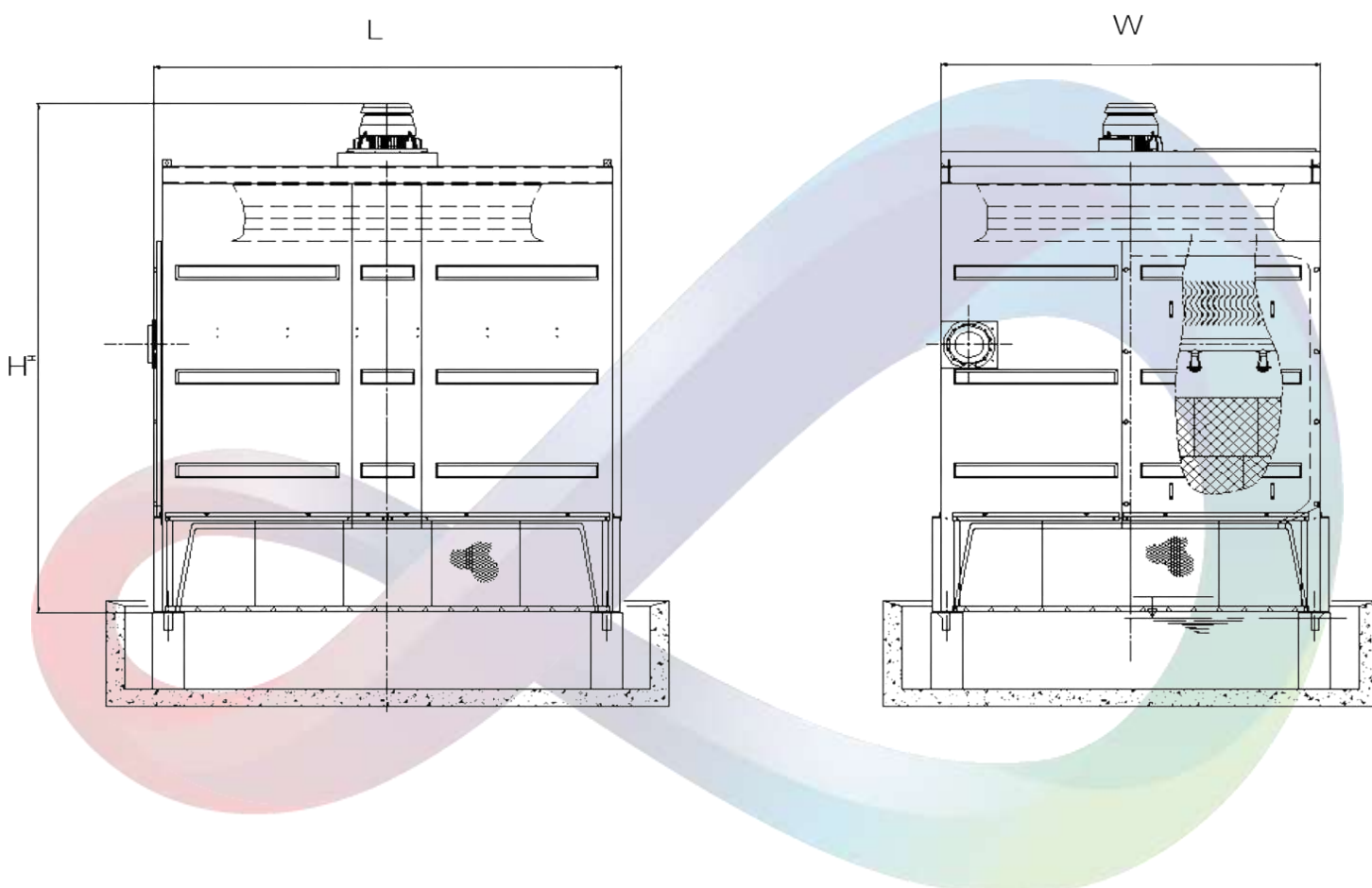
* Data based on a thermal regime of 32/27/21°C

Drawings and dimensions VAP with basin



VAP(X) series		VAP (X) 24-24D xx 110	VAP (X) 24-24 xx 110	VAP (X) 29-24 xx 150		VAP (X) 30-30 xx 185	VAP (X) 35-30 xx 220	VAPX 35-35 xx 220	VAPX 35-35 xx 300	VAPX 40-40 xx 370	VAPX 45-45 xx 420
L (mm)		2510	2510	3060		3150	3700	3740	3740	4255	4755
W (mm)		2510	2510	2510		3150	3150	3740	3740	4255	4755
H (mm)		4710	4710	4790		4940	4940	5080	5080	5900	5830
Shipping weight (kg)	Polyester	1300	1300	1550		2150	2360				
	Inox							3555	4055	5550	6600
Operating weight (kg)	Polyester	4280	4280	5345		7300	8380				
	Inox							9050	9550	12250	14400

Drawings and dimensions VAP without basin (concrete basin– customer supply)



VAP(X) series		VAP (X) 24-24D xx 110	VAP (X) 24-24 xx 110	VAP (X) 29-24 xx 150	VAP (X) 30-30 xx 185	VAP (X) 35-30 xx 220	VAPX 35-35 xx 220	VAPX 35-35 xx 300	VAPX 40-40 xx 370	VAPX 45-45 xx 420
L (mm)		2490	2490	3040	3130	3630	3770	3770	4230	4755
W (mm)		2490	2490	2490	3130	3130	3770	3770	4230	4755
H (mm)		4160	4160	4240	4340	4340	4480	4480	5120	5075
Shipping weight (kg)	Polyester	1150	1150	1350	1900	2050				
	Inox						3000	3500	4650	5500
Operating weight (kg)	Polyester	1560	1560	1855	2580	2850				
	Inox						3600	4100	6050	6900

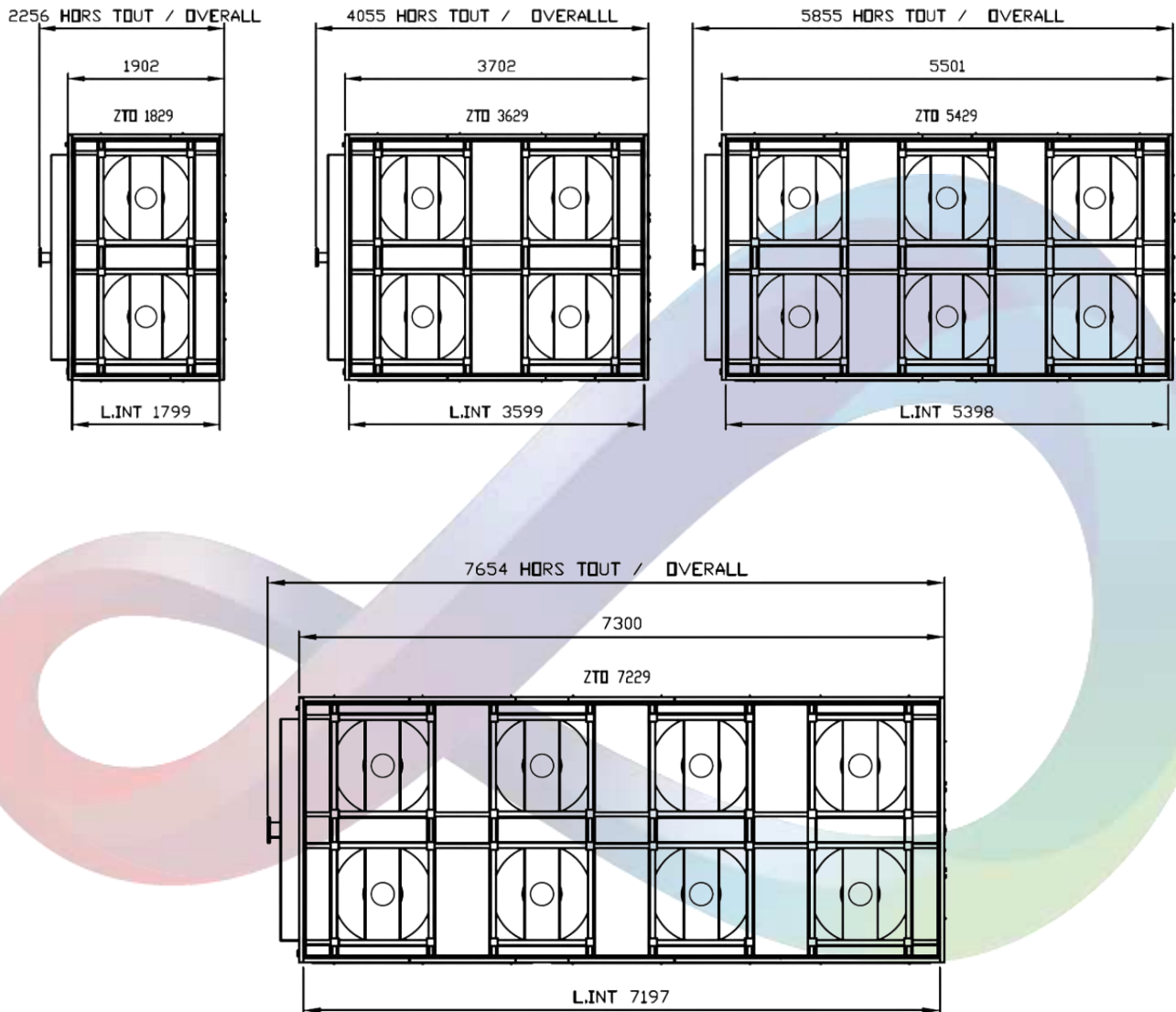
Technical characteristics ZTO

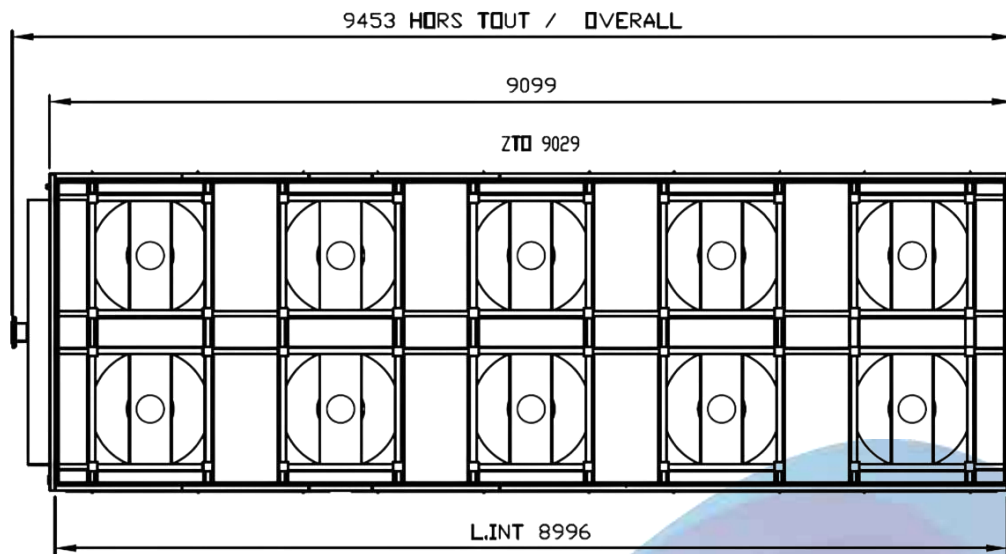
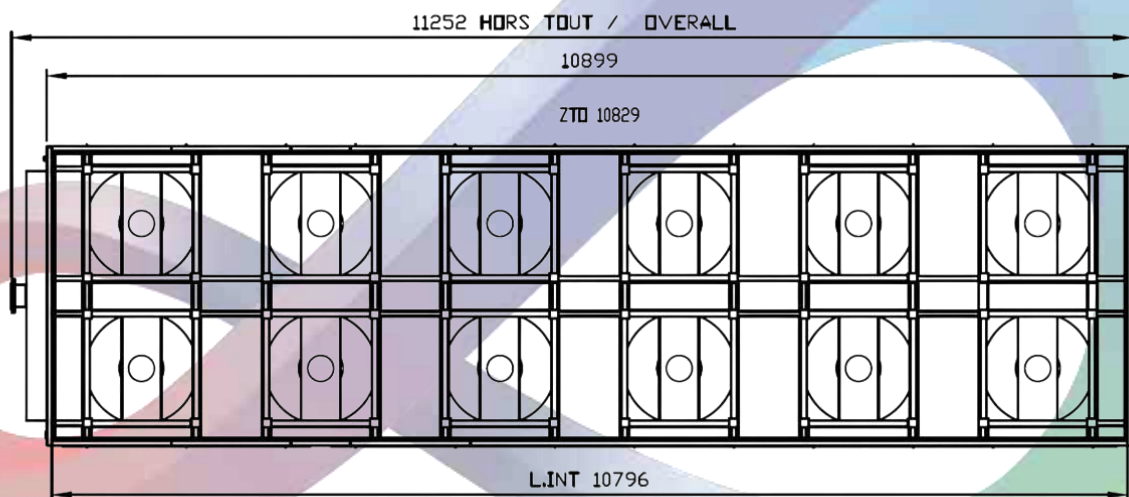
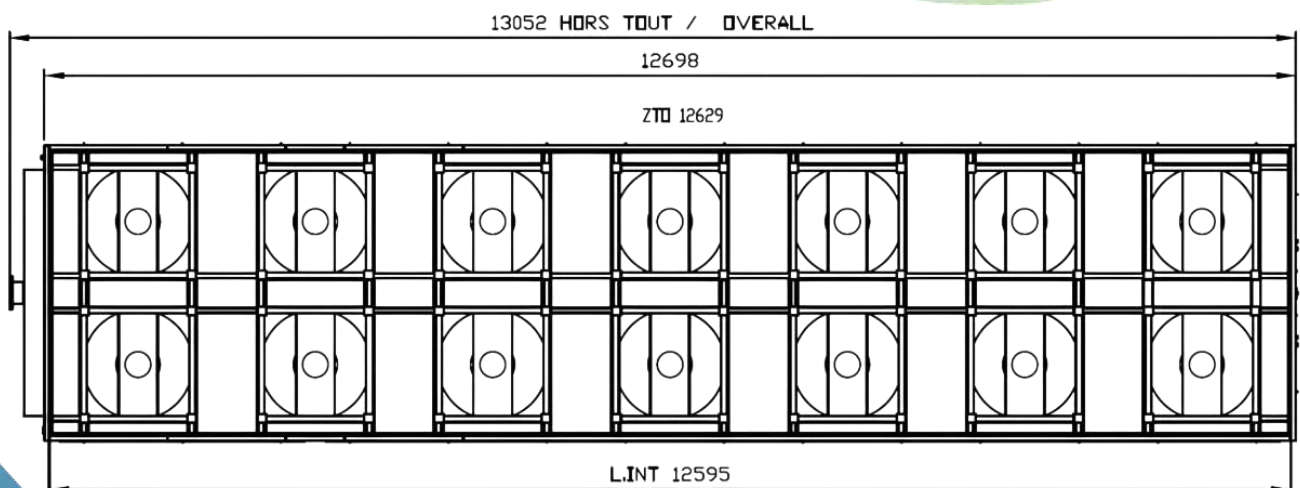
ZENIT series

		ZTO-x-1-E10- Dx-01829-PA- BA	ZTO-x-2-E10- Dx-03629- PA-BA	ZTO-x-3-E10- Dx-05429- PA-BA	ZTO-x-4-E10- Dx-07229- PA-BA	ZTO-x-5-E10- Dx-09029- PA-BA	ZTO-x-6-E10- Dx-10829-PA- BA	ZTO-x-7-E10- Dx-12629-PA- BA
Capacity ¹	kW	825	1 650	2 470	3 295	4 115	4 940	5 770
Fans	Qty	2	4	6	8	10	12	14
Rated Power (per fan)	kW	6,4	6,4	6,4	6,4	6,4	6,4	6,4
Weight empty	kg	2 000	3 450	4 800	6 250	7 750	9 050	10 550
Operation weight	kg	5 850	11 000	15 950	21 050	26 150	31 150	36 250
Length	mm	2 256	4 055	5 855	7 654	9 453	11 252	13 052
Width	mm	3 000	3 000	3 000	3 000	3 000	3 000	3 000
Height	mm	5 875	5 875	5 915	5 915	5 915	5 955	5 955

(1): reference power is based on thermal data 32 / 27 / 21°C.

Drawings and dimensions ZTO





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TECHNICAL DATA

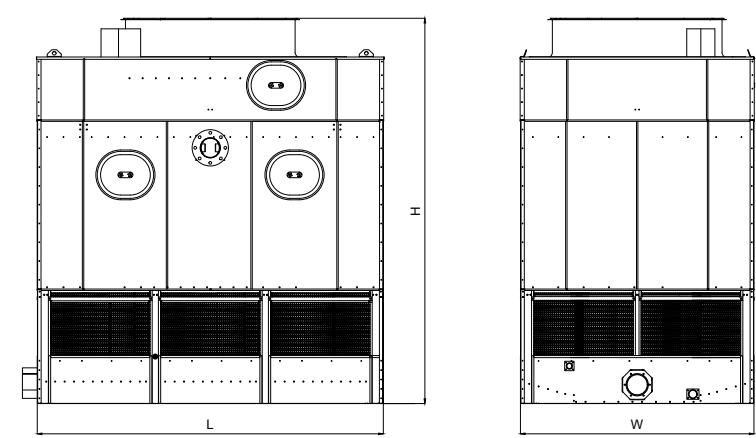
Modello <i>Type</i>	Potenza termica* <i>Heat rejection*</i> kW	Portata aria <i>Air flow</i> m³/s	Numero ventilatori <i>Number of fans</i>	Totale Potenza impegnata <i>Total Input Power</i> kW	Peso torre completa a vuoto <i>Net weight</i> Kg	Peso torre completa in esercizio <i>Weight in operation</i> Kg
TMA-EU 08-24	190	5,18	1	2,2	325	594
TMA-EU 08-26	230	5,18	1	4,0	364	678
TMA-EU 08-29	256	5,18	1	4,0	384	744
TMA-EU 08-36	284	7,78	1	4,0	540	943
TMA-EU 08-40	345	7,78	1	5,5	553	1.025
TMA-EU 08-44	384	7,78	1	5,5	564	1.104
TMA-EU 08-55	475	10,69	1	4,0	723	1.430
TMA-EU 08-58	483	10,89	1	5,5	723	1.430
TMA-EU 08-67	560	11,34	1	5,5	744	1.554
TMA-EU 08-76	633	14,26	1	4,0	1.004	1.948
TMA-EU 08-84	644	14,52	1	5,5	1.004	1.948
TMA-EU 08-90	725	14,69	1	7,5	1.033	2.113
TMA-EU 08-96	791	17,82	1	5,5	1.252	2.566
TMA-EU 08-103	805	18,14	1	7,5	1.252	2.566
TMA-EU 08-109	906	18,36	1	11,0	1.288	2.773
TMA-EU 11-131	1.127	25,40	1	7,5	1.810	3.650
TMA-EU 11-145	1.175	26,46	1	11,0	1.810	3.650
TMA-EU 11-153	1.343	27,22	1	15,0	1.860	3.939
TMA-EU 14-145	1.288	29,03	1	11,0	2.036	4.138
TMA-EU 14-166	1.343	30,24	1	15,0	2.036	4.138
TMA-EU 14-179	1.535	31,10	1	18,5	2.093	4.469
TMA-EU 19-195	1.622	36,54	1	18,5	2.187	4.728
TMA-EU 19-211	1.906	38,63	1	22,0	2.256	5.127
TMA-EU 19-189	2.286	51,50	1	15,0	2.848	6.236
TMA-EU 19-248	2.349	52,90	1	22,0	2.848	6.236
TMA-EU 19-260	2.473	50,11	1	22,0	2.940	6.769
TMA-EU 19-288	2.611	52,90	1	30,0	2.940	6.769
TMA-EU 19-218	2.155	48,55	1	15,0	3.270	7.081
TMA-EU 19-262	2.503	56,38	1	22,0	3.270	7.081
TMA-EU 19-300	2.783	56,38	1	30,0	3.373	7.680
TMA-EU 19-316	2.859	57,94	1	30,0	3.373	7.680
TMA-EU 20-152	1.266	28,51	2	8,0	2.009	3.895
TMA-EU 20-168	1.288	29,03	2	11,0	2.009	3.895
TMA-EU 20-180	1.450	29,38	2	15,0	2.066	4.226
TMA-EU 20-191	1.582	35,64	2	11,0	2.504	5.132
TMA-EU 20-207	1.610	36,29	2	15,0	2.504	5.132
TMA-EU 20-219	1.812	36,72	2	22,0	2.575	5.546
TMA-EU 21-261	2.254	50,800	2	15,0	3.620	7.300
TMA-EU 21-276	2.350	52,92	2	22,0	3.620	7.300
TMA-EU 21-291	2.687	54,43	2	30,0	3.720	7.879
TMA-EU 24-289	2.577	58,06	2	22,0	4.071	8.277
TMA-EU 24-331	2.685	60,48	2	30,0	4.071	8.277
TMA-EU 24-358	3.070	62,21	2	37,0	4.185	8.938
TMA-EU 29-390	3.245	73,08	2	37,0	4.374	9.455
TMA-EU 29-422	3.813	77,26	2	44,0	4.512	10.254
TMA-EU 29-378	4.573	103,01	2	30,0	5.697	12.472
TMA-EU 29-498	4.698	105,79	2	44,0	5.697	12.472
TMA-EU 29-520	4.947	100,22	2	44,0	5.881	13.538
TMA-EU 29-577	5.222	105,79	2	60,0	5.881	13.538
TMA-EU 29-436	4.310	97,09	2	30,0	6.539	14.161
TMA-EU 29-525	5.006	112,75	2	44,0	6.539	14.161
TMA-EU 29-600	5.565	112,75	2	60,0	6.746	15.360
TMA-EU 29-633	5.719	115,88	2	60,0	6.746	15.360
TMA-EU 31-392	3.382	76,2	3	22,5	5.430	10.950
TMA-EU 31-435	3.525	79,38	3	33,0	5.430	10.950
TMA-EU 31-458	4.030	81,65	3	45,0	5.580	11.818
TMA-EU 34-434	3.865	87,09	3	33,0	6.107	12.415
TMA-EU 34-497	4.028	90,72	3	45,0	6.107	12.415
TMA-EU 34-537	4.606	93,31	3	55,5	6.278	13.407
TMA-EU 39-585	4.867	109,62	3	55,5	6.561	14.183
TMA-EU 39-633	5.719	115,88	3	66,0	6.767	15.382

*Potenza termica riferita a temperatura dell'acqua entrante/uscente 36/30°C, temperatura a bulbo umido di 24°C

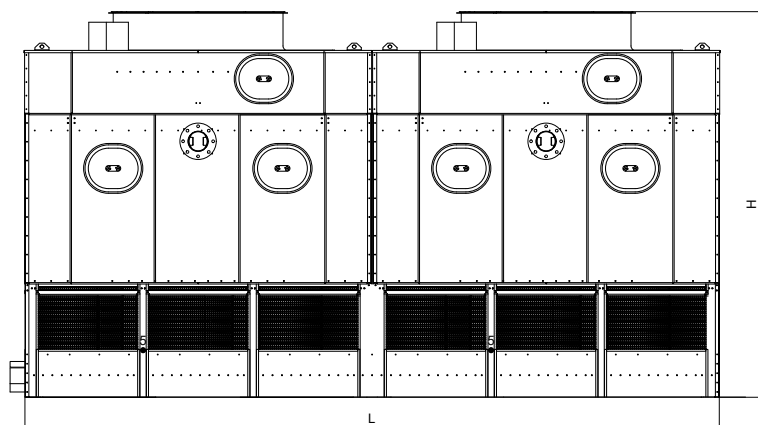
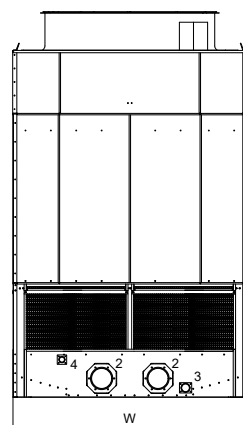
*Heat rejection referred to inlet/outlet water temperature 36/30°C, wet bulb temperature 24°C.

DIMENSIONI

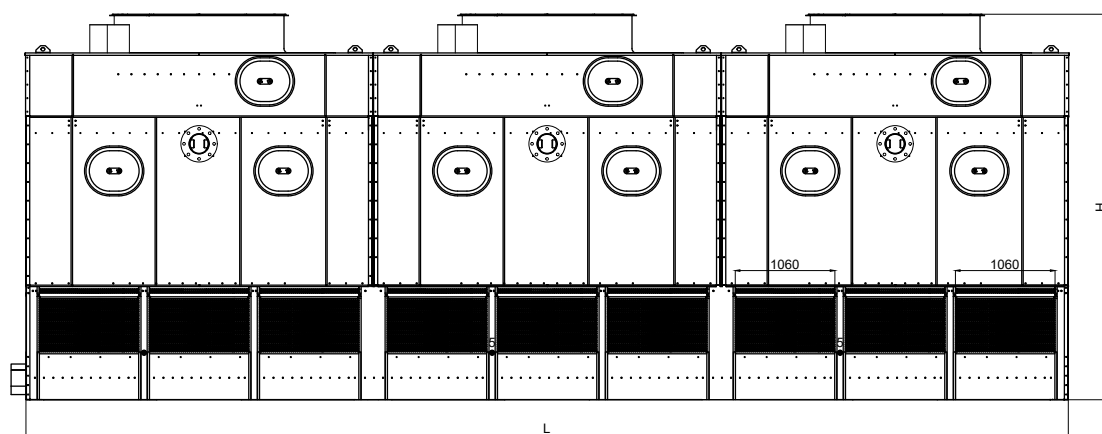
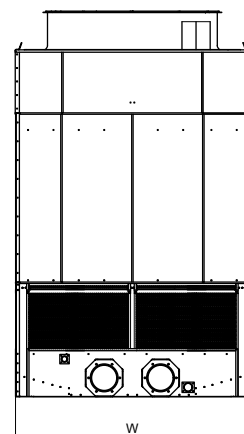
DIMENSIONS



Modello <i>Type</i>	L mm	W mm	H mm
TMA-EU 08-24	1.286	1.286	4.089
TMA-EU 08-26	1.286	1.286	4.089
TMA-EU 08-29	1.286	1.286	4.089
TMA-EU 08-36	1.886	1.286	4.089
TMA-EU 08-40	1.886	1.286	4.089
TMA-EU 08-44	1.886	1.286	4.089
TMA-EU 08-55	1.886	1.886	4.089
TMA-EU 08-58	1.886	1.886	4.089
TMA-EU 08-67	1.886	1.886	4.089
TMA-EU 08-76	2.484	1.886	4.089
TMA-EU 08-84	2.484	1.886	4.089
TMA-EU 08-90	2.484	1.886	4.089
TMA-EU 08-96	3.084	1.886	4.089
TMA-EU 08-103	3.084	1.886	4.089
TMA-EU 08-109	3.084	1.886	4.089
TMA-EU 11-131	3.684	2.186	4.089
TMA-EU 11-145	3.684	2.186	4.089
TMA-EU 11-153	3.684	2.186	4.089
TMA-EU 14-145	3.684	2.486	4.089
TMA-EU 14-166	3.684	2.486	4.089
TMA-EU 14-179	3.684	2.486	4.089
TMA-EU 19-195	3.684	2.986	4.289
TMA-EU 19-211	3.684	2.986	4.289
TMA-EU 19-189	4.884	2.986	4.339
TMA-EU 19-248	4.884	2.986	4.339
TMA-EU 19-260	4.884	2.986	4.339
TMA-EU 19-288	4.884	2.986	4.339
TMA-EU 19-218	5.484	2.986	4.339
TMA-EU 19-262	5.484	2.986	4.339
TMA-EU 19-300	5.484	2.986	4.339
TMA-EU 19-316	5.484	2.986	4.339



Modello Type	L mm	W mm	H mm
TMA-EU 20-152	4.968	1.886	4.089
TMA-EU 20-168	4.968	1.886	4.089
TMA-EU 20-180	4.968	1.886	4.089
TMA-EU 20-191	6.168	1.886	4.089
TMA-EU 20-207	6.168	1.886	4.089
TMA-EU 20-219	6.168	1.886	4.089
TMA-EU 21-261	7.368	2.186	4.089
TMA-EU 21-276	7.368	2.186	4.089
TMA-EU 21-291	7.368	2.186	4.089
TMA-EU 24-289	7.368	2.486	4.089
TMA-EU 24-331	7.368	2.486	4.089
TMA-EU 24-358	7.368	2.486	4.089
TMA-EU 29-390	7.368	2.986	4.289
TMA-EU 29-422	7.368	2.986	4.289
TMA-EU 29-378	9.768	2.986	4.339
TMA-EU 29-498	9.768	2.986	4.339
TMA-EU 29-520	9.768	2.986	4.339
TMA-EU 29-577	9.768	2.986	4.339
TMA-EU 29-436	10.968	2.986	4.339
TMA-EU 29-525	10.968	2.986	4.339
TMA-EU 29-600	10.968	2.986	4.339
TMA-EU 29-633	10.968	2.986	4.339



Modello Type	L mm	W mm	H mm
TMA-EU 31-392	11.052	2.186	4.089
TMA-EU 31-435	11.052	2.186	4.089
TMA-EU 31-458	11.052	2.186	4.089
TMA-EU 34-434	11.052	2.486	4.089
TMA-EU 34-497	11.052	2.486	4.089
TMA-EU 34-537	11.052	2.486	4.089
TMA-EU 39-585	11.052	2.986	4.289
TMA-EU 39-633	11.052	2.986	4.289

49-point operating performance table for COFINAIR - IOCT Family - VAP & ZENIT lines

Condition Reference #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Wet Bulb °C	10	10	10	10	10	13	13	13	13	13	16	16	16	16	16	18	18	18	18	18	21	21	21	21	21
Range °C	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8	6	6	6	8	8
Approach °C	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7
Inlet Water Temperature °C	20	22	23	22	25	23	25	26	25	28	26	28	29	28	31	28	30	31	30	33	31	33	34	33	36
Outlet Water Temperature °C	14	16	17	14	17	17	19	20	17	20	20	22	23	20	23	22	24	25	22	25	25	27	28	25	28
Model	Water flow rates (l/s) for indicated conditions																								
VAP-24-24D-MA-110	16.6	21.7	24.3	14.4	20.6	18.4	24.0	26.8	15.9	22.8	20.3	26.5	29.6	17.7	25.2	21.7	28.4	31.7	18.9	27.0	24.2	31.5	35.1	21.1	30.1
VAP-24-24-MA-110	19.2	24.9	27.7	16.6	23.6	21.0	27.5	30.6	18.3	26.1	23.3	30.3	33.8	20.3	28.9	25.0	32.4	36.1	21.8	30.9	27.7	35.9	40.0	24.1	34.3
VAP-29-24-MA-150	26.1	33.7	37.4	22.8	32.1	28.7	37.0	41.2	25.2	35.4	31.8	40.9	45.4	27.9	39.1	34.0	43.7	48.6	29.8	41.9	37.8	48.5	53.7	33.1	46.4
VAP-30-30-MA-185	30.9	40.2	44.9	26.8	38.2	34.0	44.3	49.6	29.5	42.3	37.6	49.1	54.7	32.8	46.7	40.3	52.5	58.6	35.1	50.1	44.8	58.2	64.9	39.0	55.6
VAP-35-30-MA-220	36.9	48.1	53.6	32.0	45.7	40.6	52.9	59.2	35.3	50.4	45.0	58.5	65.4	39.4	55.8	48.2	62.7	70.0	41.9	59.8	53.5	69.6	77.7	46.7	66.5
VAP-35-35-MA-220	38.0	50.1	56.2	32.9	47.6	42.1	55.3	62.1	36.3	52.5	46.6	61.4	68.7	40.4	58.3	50.1	65.7	73.6	43.3	62.5	55.7	73.1	81.8	48.3	69.7
VAP-35-35-MA-300	42.7	55.9	62.6	36.9	53.1	47.1	61.7	68.9	40.8	58.6	52.2	68.1	76.1	45.2	64.8	55.9	72.9	81.4	48.4	69.5	62.1	80.9	90.2	54.0	77.1
VAP-40-40-MA-370	48.5	63.4	70.8	42.0	60.2	53.4	69.8	78.6	46.3	66.3	59.0	77.1	86.1	51.2	73.4	63.3	82.4	92.0	55.0	78.6	70.2	91.4	101.9	61.1	87.2
VAP-45-45-MA-450	58.8	76.8	85.8	50.8	72.8	64.8	84.5	94.5	56.1	80.4	71.7	93.5	104.4	62.1	88.9	76.7	100.0	111.6	66.6	95.3	85.2	110.9	123.8	74.0	105.8
VAP-24-24D-MK-110	14.8	21.1	24.1	NC	19.9	16.9	23.7	27.0	13.9	22.5	19.2	26.7	30.3	16.0	25.4	21.0	28.9	32.7	17.6	27.6	23.9	32.5	36.7	20.2	31.1
VAP-24-24-MK-110	16.9	24.0	27.4	NC	22.6	19.2	27.0	30.8	15.9	25.6	21.9	30.4	34.5	18.2	28.9	23.9	32.8	37.2	20.0	31.4	27.2	36.9	41.8	23.0	35.3
VAP-29-24-MK-150	20.9	29.7	34.0	NC	28.1	23.8	33.4	38.1	19.7	31.7	27.1	37.7	42.8	22.6	35.8	29.6	40.7	46.1	24.8	38.9	33.7	45.8	51.8	28.5	43.8
VAP-30-30-MK-185	27.4	38.8	44.5	NC	36.7	31.1	43.7	49.9	25.7	41.4	35.5	49.2	55.9	29.5	46.8	38.7	53.2	60.3	32.4	50.8	44.1	59.9	67.7	37.2	57.3
VAP-35-30-MK-220	32.7	46.5	53.2	NC	43.9	37.2	52.3	59.6	30.8	49.6	42.4	58.9	66.9	35.3	56.0	46.3	63.7	72.1	38.8	60.8	52.7	71.6	81.0	44.5	68.5
VAP-35-35-MK-220	34.0	48.3	55.2	NC	45.6	38.6	54.3	61.9	31.9	51.5	44.0	61.2	69.5	36.7	58.2	48.1	66.1	74.9	40.3	63.2	54.7	74.4	84.1	46.3	71.2
VAP-35-35-MK-300	37.6	53.4	61.1	NC	50.4	42.7	60.0	68.5	35.3	56.9	48.7	67.6	76.8	40.5	64.3	53.1	73.1	82.8	44.5	69.8	60.5	82.3	93.1	51.2	78.7
VAP-40-40-MK-370	42.6	60.5	69.2	NC	57.1	48.4	68.0	77.6	40.0	64.5	55.2	76.6	87.0	45.9	72.9	60.2	82.9	93.8	50.5	79.1	68.6	93.2	105.4	58.0	89.2
VAP-45-45-MK-450	51.8	73.5	84.2	NC	69.5	58.9	82.7	94.4	48.7	78.5	67.1	93.2	105.8	55.9	88.7	73.2	100.8	114.1	61.4	96.2	83.4	113.4	128.2	70.5	108.5
VAP-24-24D-NS-110	14.2	19.9	22.8	NC	18.7	16.0	22.3	25.5	13.4	21.0	18.0	25.0	28.6	15.1	23.7	19.5	27.1	30.9	16.4	25.7	22.1	30.6	34.8	18.6	29.1
VAP-24-24-NS-110	16.4	22.8	26.1	NC	21.5	18.4	25.6	29.2	15.4	24.1	20.7	28.7	32.7	17.4	27.1	22.4	31.0	35.3	18.9	29.4	25.4	34.9	39.6	21.4	33.2
VAP-29-24-NS-150	20.2	28.2	32.3	NC	26.6	22.7	31.6	36.1	19.0	29.9	25.6	35.5	40.5	21.5	33.6	27.7	38.4	43.8	23.3	36.4	31.4	43.3	49.2	26.5	41.1
VAP-30-30-NS-185	26.4	36.9	42.2	NC	34.8	29.6	41.3	47.2	24.8	39.0	33.4	46.4	52.9	28.1	43.9	36.3	50.2	57.2	30.5	47.6	41.1	56.6	64.4	34.6	53.8
VAP-35-30-NS-220	31.7	44.0	50.4	NC	41.6	35.6	49.3	56.3	29.8	46.7	40.1	55.4	63.1	33.7	52.5	43.4	59.9	68.3	36.6	56.9	49.1	67.6	76.9	41.6	64.3
VAP-35-35-NS-220	34.4	48.0	55.0	NC	45.3	38.6	53.8	61.6	32.4	50.9	43.6	60.6	69.3	36.6	57.4	47.3	65.6	74.9	39.8	62.2	53.6	74.0	84.4	45.3	70.4
VAP-35-35-NS-300	38.6	53.6	61.3	NC	50.6	43.3	60.0	68.5	36.3	56.8	48.8	67.3	76.7	41.0	63.9	52.9	72.8	82.8	44.6	69.2	59.7	81.9	92.9	50.6	78.0
VAP-40-40-NS-370	43.9	60.8	69.3	NC	57.4	49.2	67.9	77.5	41.3	64.3	55.3	76.2	86.7	46.6	72.3	59.9	82.3	93.5	50.6	78.2	67.6	92.5	105.0	57.3	88.2
VAP-45-45-NS-450	53.2	73.6	84.0	NC	69.6	59.6	82.3	93.8	50.3	78.0	67.1	92.2	105.0	56.7	87.7	72.6	99.8	113.3	61.5	94.9	82.2	112.2	127.5	69.7	107.0
ZTO-x-1-E10-D6-01829-PA-xx	18.8	24.6	27.5	16.4	23.5	20.7	27.1	30.3	18.1	26.0	22.9	29.9	33.4	20.0	28.7	24.5	32.0	35.8	21.4	30.8	27.2	35.5	39.7	23.8	34.2
ZTO-x-2-E10-D6-03629-PA-xx	37.6	49.0	54.8	32.8	47.0	41.4	54.0	60.4	36.1	51.8	45.7	59.7	66.7	40.0	57.4	49.0	63.9	71.4	42.9	61.5	54.4	70.9	79.3	47.7	68.4
ZTO-x-3-E10-D6-05429-PA-xx	56.1	73.2	81.9	49.0	70.2	61.7	80.7	90.3	54.2	77.5	68.2	89.1	99.7	59.7	85.7	73.1	95.4	106.7	64.0	91.9	81.2	106.0	118.5	71.2	102.2
ZTO-x-4-E10-D6-07229-PA-xx	74.9	97.7	109.3	65.5	93.7	82.5	107.6	120.3	72.0	103.5	91.2	118.9	133.0	80.1	114.5	97.6	127.3	142.3	85.7	122.7	108.5	141.4	157.9	95.4	136.4
ZTO-x-5-E10-D6-09029-PA-xx	93.3	121.8	136.2	81.6	116.9	102.8	134.2	150.0	90.1	129.0	113.7	148.3	165.7	99.8	142.8	121.7	158.8	177.4	106.8	152.9	135.3	176.4	197.1	118.9	170.1
ZTO-x-6-E10-D6-10829-PA-xx	112.0	146.1	163.2	98.0	140.1	123.4	161.0	180.0	108.2	154.8	136.4	177.9	198.8	119.7	171.3	146.1	190.3	212.8	128.4	183.4	162.3	211.4	236.4	142.8	204.2
ZTO-x-7-E10-D6-12629-PA-xx	131.2	170.9	191.2	114.9	164.1	144.6	188.5	210.6	126.6	181.1	159.8	208.3	232.7	140.3	200.5	171.1	222.8	249.0	150.2	214.7	190.1	247.4	276.6	167.3	238.8
ZTO-x-1-E10-D6-01829-PS-xx	18.2	24.5	27.6	NC	23.3	20.2	27.2	30.6	17.3	26.0	22.6	30.2	34.0	19.4	29.0	24.3	32.5	36.6	21.0	31.2	27.3	36.3	40.9	23.6	34.9
ZTO-x-2-E10-D6-03629-PS-xx	36.4	48.9	55.1	31.2	46.7	40.5	54.2	61.1	34.8	51.9	45.1	60.4	68.0	38.9	57.9	48.6	64.9	73.0	42.0	62.3	54.5	72.5	81.6	47.3	69.8
ZTO-x-3-E10-D6-05429-PS-xx	54.2	72.9	82.2	46.5	69.6	60.3	80.2	91.2	51.8	77.4	67.3	90.0	101.5	58.0	86.4	72.6	96.8	109.1	62.6	93.0	81.4	108.3	121.9	70.5	104.3
ZTO-x-4-E10-D6-07229-PS-xx	72.6	97.3	109.9	62.4	93.1	80.8	108.1	121.8	69.6	103.5	90.2	120.3	135.4	77.9	115.5	97.0	129.3	145.5	84.0	124.3	108.8	144.6	162.7	94.6	139.4
ZTO-x-5-E10-D6-09029-PS-xx	90.5	121.4	136.9	77.7	115.9	100.6	134.7	151.8	86.7	129.0	112.4	150.0	168.8	97.1	143.9	121.0	161.1	181.4	104.7	155.0	135.7	180.3	202.8	117.7	173.8
ZTO-x-6-E10-D6-10829-PS-xx	108.6	145.5	164.2	93.3	139.1	120.8	161.5	182.0	104.1	154.8	134.8	179.8	202.4	116.6	172.6	145.4	193.3	217.6	125.9	185.9	162.8	216.4	243.2	141.6	208.6
ZTO-x-7-E10-D6-12629-PS-xx	127.2	170.5	192.2	109.5	163.0	141.6	189.3	213.1	122.1	181.3	158.0	210.7	236.9	136.5	202.3	170.0	226.5	254.6	147.5	217.7	190.9	253.3	284.6	165.9	244.2
ZTO-x-1-E10-D7-01829-PA-xx	18.7	24.4	27.3	16.3	23.4	20.6	26.9	30.1	18.0	25.8	22.7	29.7	33.2	19.9	28.6	24.3	31.8	35.5	21.3	30.6	27.0	35.3	39.4	23.7	34.0
ZTO-x-2-E10-D7-03629-PA-xx	37.3	48.7	54.4	32.6	46.7	41.1	53.7	60.0	36.0	51.5	45.4	59.3	66.3	39.8	57.0	48.6	63.4	70.9	42.6	61.1	54.0	70.4	78.7	47.4	67.9
ZTO-x-3-E10-D7-05429-PA-xx	55.7	72.8	81.3	48.6	69.7	61.3	80.2	89.6	53.7	77.0	67.8	88.5	99.0</												

Dessa TMA-EU Series
Temperatures in °C
Water flow in l/s
Flow* = maximum water flow

TMA-EU TABLE PERFORMANCE
(12 mm fill)

	(U.M)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
T _{amb}	[°C]		20	22	23	24	22	25	23	26	25	28	26	28	29	28	31	28	30	31	30	33	31	32,0	33	34	33	36	34	36	37	39	36	39	37	39	40	39	42	39	41	42	41	44	42,2	44,2	45,2	44,2	46,2	35	37	
T _{out}	[°C]		14	16	17	14	17	17	19	20	17	20	20	22	23	20	23	22	24	25	22	25	25	27,0	27	28	28	25	28	28	30	31	28	31	31	33	34	34	31	34	33	35	36	33	36	36,2	38,2	39,2	36,2	39,2	29,44	32
T _{ws}	[°C]		10	10	10	10	10	13	13	13	13	13	16	16	16	16	16	18	18	18	18	21	21,0	21	21	21	21	21	21	24	24	24	24	27	27	27	27	29	29	29	29	32	32,2	32,2	32,2	32,2	35,6	27				
Range	[°C]		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
Approach	[°C]		4	6	7	4	6	8	6	7	8	6	8	6	6	6	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
R.H.	[%]		50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
T _{ref}	[°C]		15,36	15,36	15,36	15,36	15,36	19,00	19,00	19,00	19,00	19,00	22,65	22,65	22,65	22,65	22,65	25,08	25,08	25,08	25,08	25,08	25,08	28,72	28,72	28,72	28,72	28,72	28,72	32,35	32,35	32,35	32,35	32,35	35,95	35,95	35,95	35,95	38,35	38,35	38,35	38,35	38,35	42,17	42,17	42,17	42,17	42,17	34,22	35,95		
Z	[m]		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

TMA-EU-08-24	3.23	4.44	5.07	2.77	4.24	3.60	4.95	5.66	3.08	4.73	4.02	5.54	6.35	3.45	5.31	4.34	5.99	6.86	3.73	5.74	4.90	7.60	6.76	7.74	4.20	6.48	5.53	7.64	8.76	4.75	7.35	6.27	8.66	9.93	5.39	8.34	6.82	9.43	10.81	5.87	9.09	7.82	10.82	12.42	6.74	10.45	6.02	8.32	7.26		
TMA-EU-08-25	3.87	5.27	6.00	3.33	5.04	4.31	5.87	6.69	3.71	5.63	4.81	6.57	7.49	24.15	6.32	5.19	7.10	8.88	4.10	4.48	6.83	5.84	8.95	7.99	9.13	5.05	7.71	6.59	9.03	10.32	5.71	8.72	7.27	8.47	10.23	11.69	6.47	9.89	8.12	11.13	12.73	7.04	10.78	9.31	12.77	14.61	8.08	12.39	7.17	9.82	10.49
TMA-EU-08-29	4.38	5.92	6.72	3.80	5.69	4.87	6.59	7.49	4.22	6.35	5.44	7.37	8.39	24.73	7.12	5.87	7.96	9.06	5.10	7.70	6.60	9.99	8.96	10.20	5.75	8.68	7.45	10.12	11.53	6.49	9.81	8.43	11.46	13.96	7.35	11.12	9.16	12.46	14.20	8.00	12.11	10.49	14.29	16.30	9.17	13.91	8.09	10.99	9.67		
TMA-EU-08-36	4.85	6.66	7.61	4.15	6.36	5.40	7.42	8.49	4.62	7.10	6.03	8.31	9.32	5.17	7.97	6.51	8.99	10.29	5.99	8.62	7.34	11.40	10.13	11.61	6.30	9.72	8.29	11.46	13.13	7.13	11.02	9.40	12.99	14.89	8.08	12.51	10.22	14.14	16.22	8.63	10.17	15.68	9.93	12.48	10.89	10.99	9.67				
TMA-EU-08-40	5.80	7.90	9.00	5.00	7.56	6.46	8.80	10.04	5.57	8.45	7.21	9.85	11.24	6.23	9.48	7.79	10.65	12.15	6.72	10.25	8.76	13.42	11.99	13.69	7.58	11.56	9.89	13.55	15.47	8.56	13.08	11.20	15.35	17.54	9.70	14.84	12.18	16.70	19.09	10.56	16.17	13.96	19.16	21.91	12.12	16.58	10.75	14.73	12.92		
TMA-EU-08-44	6.57	8.87	10.08	5.70	8.53	7.30	9.89	11.24	6.34	9.53	8.17	11.06	12.56	7.10	10.67	8.81	11.94	13.59	6.76	11.54	9.90	14.99	13.44	15.31	8.62	13.01	11.18	15.18	17.29	9.73	14.71	12.64	17.19	19.58	11.02	16.69	13.74	18.69	21.31	12.00	16.17	15.74	21.43	24.45	13.76	20.87	12.13	16.48	14.51		
TMA-EU-08-55	7.97	10.87	12.27	6.87	10.40	8.87	12.10	13.79	7.64	11.82	9.92	13.54	15.45	8.56	13.03	10.70	14.64	16.71	9.24	14.09	12.05	18.45	16.48	18.82	10.41	15.89	13.61	18.62	21.28	11.77	17.98	15.40	21.10	24.12	13.93	20.41	16.75	22.97	26.25	14.52	22.23	19.20	26.34	30.12	16.67	25.55	14.79	20.26	17.16		
TMA-EU-08-58	9.53	11.06	12.60	6.99	10.60	9.04	12.32	14.05	7.79	11.82	10.10	13.19	15.34	8.72	13.56	10.90	14.90	17.00	9.42	14.34	12.26	18.79	16.78	19.17	10.60	16.18	13.85	18.96	21.67	11.98	18.31	15.68	21.48	24.56	13.58	20.78	17.05	23.37	26.72	14.79	22.63	19.55	26.82	30.67	16.97	26.02	15.06	20.63			
TMA-EU-08-57	8.18	12.95	14.70	8.30	12.44	10.65	14.42	16.38	9.24	13.89	11.90	16.13	18.34	10.34	15.57	12.85	17.42	19.82	11.17	16.82	14.45	21.86	19.60	22.31	12.57	18.97	16.29	22.14	25.21	14.20	21.46	18.43	25.06	28.55	16.08	24.34	20.75	27.27	31.07	17.49	26.50	29.97	31.25	35.66	26.06	30.43	17.68	24.20	21.76		
TMA-EU-08-76	10.63	14.49	16.49	9.16	13.86	11.83	16.14	18.39	10.19	15.49	13.22	18.06	20.61	11.41	17.37	14.27	19.52	22.27	12.33	18.79	16.07	24.60	21.97	25.09	13.88	21.19	18.14	24.83	28.37	15.70	23.98	20.53	28.13	32.16	17.78	27.21	22.33	30.62	35.00	19.36	29.64	25.60	35.12	40.16	22.22	34.07	19.72	27.01	23.68		
TMA-EU-08-76T	10.63	14.49	16.49	9.16	13.86	11.83	16.14	18.39	10.19	15.49	13.22	18.06	20.61	11.41	17.37	14.27	19.52	22.27	12.33	18.79	16.07	24.60	21.97	25.09	13.88	21.19	18.14	24.83	28.37	15.70	23.98	20.53	28.13	32.16	17.78	27.21	22.33	30.62	35.00	19.36	29.64	25.60	35.12	40.16	22.22	34.07	19.72	27.01	23.68		
TMA-EU-08-84	10.84	14.74	16.80	9.32	14.13	12.05	16.43	18.73	10.39	15.77	13.47	18.39	20.97	11.63	17.67	14.54	19.86	22.67	12.56	19.12	16.35	25.06	22.38	25.56	14.14	21.58	18.46	25.29	28.89	15.97	24.42	20.91	28.65	32.75	18.11	27.71	22.74	31.16	35.63	19.72	30.18	26.07	35.76	40.89	22.62	34.69	20.08	27.50	24.11		
TMA-EU-08-84T	10.84	14.74	16.80	9.32	14.13	12.05	16.43	18.73	10.39	15.77	13.47	18.39	20.97	11.63	17.67	14.54	19.86	22.67	12.56	19.12	16.35	25.06	22.38	25.56	14.14	21.58	18.46	25.29	28.89	15.97	24.42	20.91	28.65	32.75	18.11	27.71	22.74	31.16	35.63	19.72	30.18	26.07	35.76	40.89	22.62	34.69	20.08	27.50	24.11		
TMA-EU-08-90	12.42	16.76	19.04	10.76	16.12	13.80	18.67	21.23	11.98	17.98	15.42	20.88	23.75	13.40	20.16	16.83	22.55	26.07	14.46	21.80	18.71	26.31	25.39	28.91	16.28	24.57	21.10	28.67	32.65	18.39	27.00	23.88	32.46	36.98	20.83	31.51	25.96	35.30	40.24	22.66	34.32	29.74	40.48	46.19	25.99	39.41	22.90	31.14	27.41		
TMA-EU-08-90T	12.42	16.76	19.04	10.76	16.12	13.80	18.67	21.23	11.98	17.98	15.42	20.88	23.75	13.40	20.16	16.83	22.55	26.07	14.46	21.80	18.71	26.31	25.39	28.91	16.28	24.57	21.10	28.67	32.65	18.39	27.00	23.88	32.46	36.98	20.83	31.51	25.96	35.30	40.24	22.66	34.32	29.74	40.48	46.19	25.99	39.41	22.90	31.14	27.41		
TMA-EU-08-96	12.42	16.76	19.04	10.76	16.12	13.80	18.67	21.23	11.98	17.98	15.42	20.88	23.75	13.40	20.16	16.83	22.55	26.07	14.46	21.80	18.71	26.31	25.39	28.91	16.28	24.57	21.10	28.67	32.65	18.39	27.00	23.88	32.46	36.98	20.83	31.51	25.96	35.30	40.24	22.66	34.32	29.74	40.48	46.19	25.99	39.41	22.90	31.14	27.41		
TMA-EU-08-96T	12.42	16.76	19.04	10.76	16.12	13.80	18.67	21.23	11.98	17.98	15.42	20.88	23.75	13.40	20.16	16.83	22.55	26.07	14.46	21.80	18.71	26.31	25.39	28.91	16.28	24.57	21.10	28.67	32.65	18.39	27.00	23.88	32.46	36.98	20.83	31.51	25.96	35.30	40.24	22.66	34.32	29.74	40.48	46.19	25.99	39.41	22.90	31.14	27.41		
TMA-EU-08-103	13.54	18.43	21.01	11.65	17.66	15.07	20.53	23.42	12.99	19.71	16.84	22.99	26.22	14.53	22.09	18.17	24.83	28.34	15.70	23.90	20.44	31.32	27.97	31.94	17.67	26.97	23.08	31.61	36.11	19.96	30.52	26.13	35.81	40.94	22.63	34.64	28.42	38.96	44.54	26.65	37.72	32.59	44.70	51.11	28.28	43.36	25.10	34.38			
TMA-EU-08-103T	13.54	18.43	21.01	11.65	17.66	15.07	20.53	23.42	12.99	19.71	16.84	22.99	26.22	14.53	22.09	18.17	24.83	28.34	15.70	23.90	20.44	31.32	27.97	31.94	17.67	26.97	23.08	31.61	36.11	19.96	30.52	26.13	35.81	40.94	22.63	34.64	28.42	38.96	44.54	26.65	37.72	32.59	44.70	51.11	28.28	43.36	25.10	34.38			
TMA-EU-08-109	15.62	20.96	23.81	13.45	20.15	17.25	23.33	26.54	14.97	22.48	19.27	26.10	29.69	16.78	25.20	20.79	28.19	32.08	18.07	27.26	23.38	35.38	31.74	36.14	20.35	30.71	26.38	35.84	40.61	22.98	34.74	29.85	40.57	46.32	26.04	39.39	32.44	44.13	50.30	28.32	42.90	37.17	50.60	57.74	32.48	49.26	28.63	38.92			
TMA-EU-08-109T	15.62	20.96	23.81	13.45	20.15	17.25	23.33	26.54	14.97	22.48	19.27	26.10	29.69	16.78	25.20	20.79	28.19	32.08	18.07	27.26	23.38	35.38	31.74	36.14	20.35	30.71	26.38	35.84	40.61	22.98	34.74	29.85	40.57	46.32	26.04	39.39	32.44	44.13	50.30	28.32	42.90	37.17	50.60	57.74	32.48	49.26	28.63	38.92			
TMA-EU-11-03	18.56	25.89	29.41	16.31	24.12	21.09	28.74	32.78	18.18	27.59	23.57	32.19	36.70	20.34	30.93	25.44	34.76	39.67	21.97	33.46	28.62	43.85	39.16	44.72	24.74	37.76	32.31	44.25	50.55	27.95	42.73	36.58	50.13	57.31	31.68	48.50	39.79	54.54	62.36	34.50	52.81	45.62	62.58	71.56	39.59	60.70	35.14	48.13			
TMA-EU-11-33T	18.56	25.89	29.41	16.31	24.12	21.09	28.74	32.78	18.18	27.59	23.57																																								

Decsa TMA-UE Series
Temperatures in °C
Water flow in l/s
Flow = maximum water flow

TMA-UE TABLE PERFORMANCE
MODEL WF (O19) - October 2024

<i>[U/M]</i>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49		
T _{in}	[°C]	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	
T _{out}	[°C]	14	16	17	14	17	17	19	20	17	20	20	22	23	20	23	22	24	25	22	25	25	27	27	28	25	28	26	30	31	28	31	31	33	34	31	34	33	35	36	33	36	36	32	38	39	36	39	42	32	38	
T _{amb}	[°C]	10	10	10	10	10	10	13	13	13	13	13	16	16	16	16	18	18	18	18	18	21	21	21	21	21	21	24	24	24	24	27	27	27	29	29	29	29	33	29	32	32	32	32	32	32	32	32	32	32	32	32
Range	[°C]	6	6	6	6	8	6	6	6	6	8	6	6	6	6	8	6	6	6	6	8	6	6	6	6	6	8	6	6	6	6	8	6	6	6	8	6	6	6	8	6	6	8	6	8	5	5	5	5	5		
Approach	[°C]	4	6	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	7	4	6	7	4	6	7	4	6	7	

TMA-UE 08-24-WF	-	2.28	2.61	0.00	2.15	1.81	2.54	2.92	-	2.40	2.03	2.84	3.28	1.73	2.70	2.19	3.08	3.55	1.85	2.92	2.47	3.95	3.48	4.01	2.09	3.31	2.80	3.94	4.55	2.37	3.75	3.18	4.48	5.16	2.69	4.27	3.46	4.87	5.63	2.93	4.66	3.08	5.60	6.47	3.37	5.36	3.06	4.30	3.72	
TMA-UE 08-26-WF	3.22	4.42	5.05	2.75	4.21	3.98	4.49	5.64	3.06	4.71	4.00	5.52	6.32	3.43	5.28	4.33	5.96	6.83	3.70	5.71	4.87	7.57	8.62	7.72	7.70	4.18	6.45	5.50	7.80	8.71	4.72	7.31	6.23	8.62	9.88	5.36	8.30	6.78	9.38	10.76	5.83	9.04	7.78	10.77	12.36	6.70	10.40	5.99	8.28	7.22
TMA-UE 08-28-WF	3.87	5.27	6.00	3.33	5.05	4.31	5.87	6.70	3.71	5.48	4.61	6.32	7.19	4.18	6.12	5.15	6.96	7.98	4.33	6.40	5.47	8.38	9.58	8.62	8.60	4.81	7.18	6.13	8.50	9.41	5.03	7.63	6.47	9.04	10.42	5.71	8.74	7.47	10.24	11.70	6.48	9.60	8.13	11.14	12.73	7.04	10.79	6.18	8.63	6.62
TMA-UE 08-30-WF	-	3.41	3.92	-	4.22	4.71	5.81	6.30	3.61	4.84	4.01	4.27	4.93	2.59	4.06	3.29	4.62	5.33	2.77	4.39	3.71	5.93	5.91	5.91	6.02	3.14	4.96	4.20	6.21	6.82	3.56	5.63	4.76	6.71	7.75	4.03	6.40	5.19	7.31	8.44	4.40	6.99	5.97	8.40	5.98	8.45	5.57			
TMA-UE 08-40-WF	4.83	6.63	7.57	4.12	6.32	5.37	7.39	8.46	4.59	7.06	6.01	8.28	9.48	5.15	7.92	6.49	8.94	10.25	5.55	8.57	7.30	11.35	13.05	11.55	11.55	6.22	9.68	8.25	11.41	13.07	7.08	10.96	9.35	12.93	14.82	8.04	12.45	10.17	14.07	16.14	8.75	13.58	11.68	16.16	18.54	10.06	15.60	8.99	12.42	10.84
TMA-UE 08-44-WF	5.81	7.90	9.01	5.00	7.57	6.46	8.81	10.05	5.57	8.66	7.21	9.86	11.24	6.23	9.48	7.79	10.65	12.16	6.73	10.26	8.77	13.33	15.20	13.70	13.70	7.58	11.57	9.90	13.55	15.48	8.56	13.09	11.21	15.36	17.55	9.71	14.85	12.19	16.71	19.10	10.56	16.18	13.98	19.17	21.95	12.13	18.99	10.76	14.74	12.93
TMA-UE 08-55-WF	6.64	9.11	10.41	5.66	8.69	7.38	10.16	11.62	6.32	9.70	8.26	11.38	13.03	7.07	10.60	8.92	12.30	14.00	7.64	11.79	10.04	15.60	17.67	15.89	15.89	8.62	13.32	11.34	15.68	17.97	9.75	15.08	12.86	17.78	20.39	11.05	17.12	14.00	19.35	22.19	12.04	18.66	16.06	22.22	25.49	13.82	21.45	12.35	17.08	14.89
TMA-UE 08-59-WF	6.75	9.28	10.61	5.78	8.85	7.52	10.34	11.84	6.43	9.89	8.41	11.59	13.27	7.19	11.09	9.08	12.53	14.34	7.78	12.01	10.23	16.08	18.25	16.41	16.41	9.15	13.87	11.89	16.32	18.70	10.55	15.96	13.30	18.10	20.78	11.25	17.43	14.15	19.70	22.60	12.26	19.00	16.35	23.97	27.61	14.07	21.84	12.58	17.38	15.17
TMA-UE 08-64-WF	6.47	9.12	13.13	7.29	11.04	11.04	9.42	12.85	14.65	8.12	12.33	10.52	14.38	16.40	9.08	13.82	11.37	15.53	17.72	9.82	14.56	12.79	19.60	21.79	19.79	11.05	16.86	14.34	19.77	22.59	12.90	19.00	16.35	22.39	25.60	14.16	21.66	17.48	24.37	27.86	15.42	23.60	20.39	27.96	32.00	17.68	27.12	15.69		
TMA-UE 08-76-WF	8.85	12.15	13.88	7.55	11.58	9.84	13.55	15.49	8.42	12.94	11.01	15.17	17.37	9.43	14.53	11.89	16.39	18.79	10.18	15.71	13.39	20.79	23.49	21.19	21.19	12.91	23.96	13.00	20.10	17.15	23.71	21.18	14.73	22.82	18.66	25.80	29.59	16.05	24.88	21.41	29.63	33.99	18.42	28.60	16.47	22.77	19.86			
TMA-UE 08-84-WF	9.00	12.37	14.15	5.70	11.80	10.02	13.79	15.78	8.57	13.18	11.22	15.45	17.69	9.59	14.79	12.10	16.70	19.12	10.38	16.01	13.64	21.18	23.81	21.81	21.81	13.56	24.60	13.22	20.46	17.45	24.14	21.68	15.00	23.24	19.00	26.27	30.13	16.35	25.33	21.80	30.17	34.61	18.76	29.12	16.77	23.17	20.22			
TMA-UE 08-94-WF	9.07	14.93	17.01	9.44	14.31	12.21	16.63	18.96	10.52	15.96	13.64	18.62	21.25	11.77	17.91	14.72	20.12	22.96	12.71	19.37	16.57	25.38	28.67	25.88	25.88	14.31	21.86	18.70	25.61	29.25	16.18	24.73	21.17	29.01	33.16	18.34	28.06	23.03	31.57	36.09	19.95	30.56	26.40	36.21	41.44	22.91	35.12	20.32	27.85	24.41
TMA-UE 08-96-WF	10.97	14.18	16.81	5.70	12.17	10.17	16.81	19.37	10.53	16.17	13.76	18.96	21.71	11.79	18.16	14.87	20.49	23.48	12.73	19.64	16.74	25.99	29.11	26.48	26.48	14.31	22.19	18.90	26.14	29.95	16.25	25.13	21.43	29.63	33.98	18.41	28.53	23.33	32.25	36.99	20.07	31.10	26.76	37.04	42.49	23.03	35.75	20.68	28.47	24.82
TMA-UE 08-96-WF	11.06	15.19	17.35	9.44	14.48	12.29	16.94	19.37	10.53	16.17	13.76	18.96	21.71	11.79	18.16	14.87	20.49	23.48	12.73	19.64	16.74	25.99	29.11	26.48	26.48	14.31	22.19	18.90	26.14	29.95	16.25	25.13	21.43	29.63	33.98	18.41	28.53	23.33	32.25	36.99	20.07	31.10	26.76	37.04	42.49	23.03	35.75	20.68	28.47	24.82
TMA-UE 08-103-WF	12.16	15.46	17.68	9.63	14.76	12.53	17.24	19.73	10.71	16.48	14.02	21.33	22.11	11.99	18.48	15.13	20.88	23.90	12.97	20.01	17.05	26.47	29.55	26.82	26.82	14.31	22.87	19.50	26.50	30.53	16.53	25.57	21.81	30.17	34.60	18.45	28.55	23.75	32.83	37.66	20.43	31.66	27.27	37.11	43.26	23.45	36.40	20.96	28.97	25.28
TMA-UE 08-109-WF	13.72	18.66	21.27	11.80	17.88	15.26	20.79	23.71	13.15	19.95	17.05	23.27	25.86	14.71	22.39	18.39	25.15	28.70	15.89	24.21	20.71	31.72	35.28	32.35	32.35	17.89	27.32	23.38	32.01	36.57	20.23	30.91	26.47	36.26	41.45	22.93	35.08	28.78	39.46	45.11	24.94	38.20	32.99	45.26	51.80	26.84	43.80	25.40	34.81	30.52
TMA-UE 11-131-WF	15.76	21.64	24.76	13.48	20.66	17.54	24.13	27.62	14.99	23.07	19.63	27.04	30.96	16.79	25.88	21.18	29.23	33.46	18.16	26.01	23.87	37.08	42.70	39.73	39.73	20.46	31.62	26.96	37.23	42.70	24.14	35.80	30.83	42.24	48.44	26.35	40.67	33.25	45.97	52.73	28.61	44.33	38.15	52.79	60.57	32.83	50.97	29.35	40.55	35.39
TMA-UE 11-131-WF	15.76	21.64	24.76	13.48	20.66	17.54	24.13	27.62	14.99	23.07	19.63	27.04	30.96	16.79	25.88	21.18	29.23	33.46	18.16	26.01	23.87	37.08	42.70	39.73	39.73	20.46	31.62	26.96	37.23	42.70	24.14	35.80	30.83	42.24	48.44	26.35	40.67	33.25	45.97	52.73	28.61	44.33	38.15	52.79	60.57	32.83	50.97	29.35	40.55	35.39
TMA-UE 11-145-WF	16.42	22.55	25.76	14.01	21.49	18.27	25.14	28.77	15.62	24.03	20.44	28.17	32.25	17.51	26.95	22.08	30.44	34.87	18.91	29.17	24.85	38.98	44.46	41.49	41.49	21.31	39.32	31.33	42.95	48.08	38.79	44.46	24.11	37.30	31.81	43.98	50.46	27.35	42.37	34.64	47.88	54.93	29.80	46.17	39.73	54.98	63.08	34.22		
TMA-UE 11-153-WF	20.33	27.06	31.52	17.49	26.50	22.60	30.83	35.16	19.48	26.90	25.25	34.51	39.35	21.79	33.16	27.27	37.26	42.56	23.56	35.90	30.70	47.02	41.99	47.95	47.95	26.55	40.50	34.64	47.44	54.19	29.97	45.81	39.24	53.76	61.42	33.99	51.98	42.67	58.50	66.										