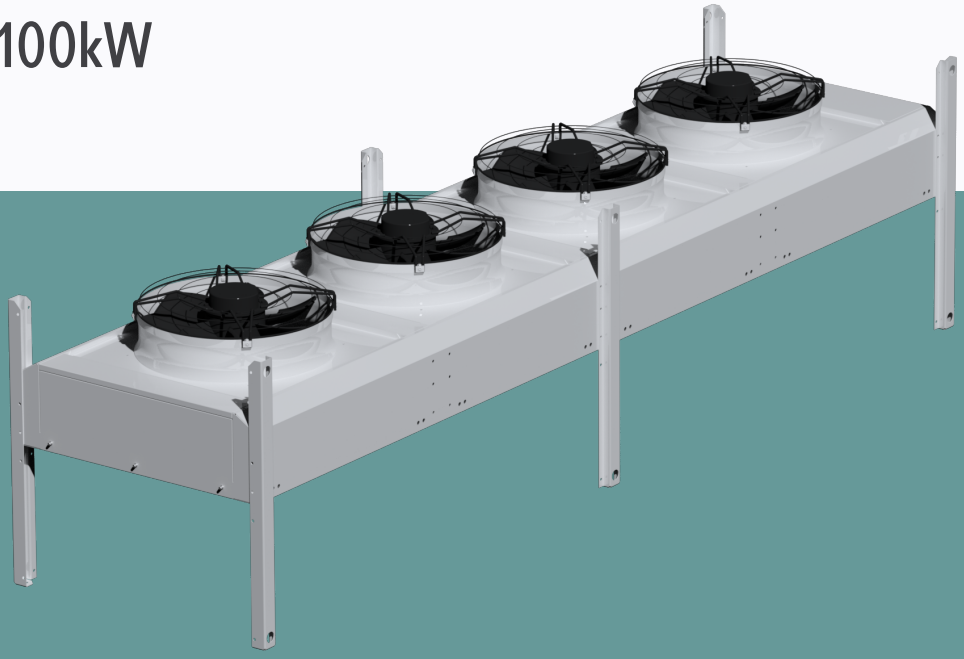
MISTRAL-F

Flatbed dry coolers

Heat rejection: 10÷1100kW



SELECTION GUIDE

June 2020

www.kaltra.com

KALTRA

MISTRAL-F

Flatbed dry coolers

Mistral-F dry coolers combine the latest cooling technologies, highest energy efficiency, and compact construction to target a wide range of applications, from urban installations to industrial process cooling. Noteworthy, these dry coolers offer the lowest level of noise emissions, making them best suitable for modern city infrastructures.

- High-performance finned tube heat exchangers with inner-grooved copper tubes
- Efficient fans driven by AC- and EC-motors with fan speed control options
- Robust design for long service life

Features and optionals

To meet precise customer requirements, we made available a vast array of accessories and options for the Mistral-F lineup of dry coolers.

- DESIGNED FOR WATER, GLYCOLS, OILS AND SPECIAL FLUIDS
- EASY ACCESS FOR MAINTENANCE AND SERVICING
- INTELLIGENT FAN SPEED CONTROL
- CONFIGURABLE FOR HORIZONTAL OR VERTICAL AIRFLOW
- LEADING ENERGY EFFICIENCIES IN APPLICATIONS
- HEAT EXCHANGER COATINGS FOR CORROSION PROTECTION
- SPACE-SAVING, LOW-HEIGHT DESIGN
- ULTRA-LOW NOISE EMISSIONS

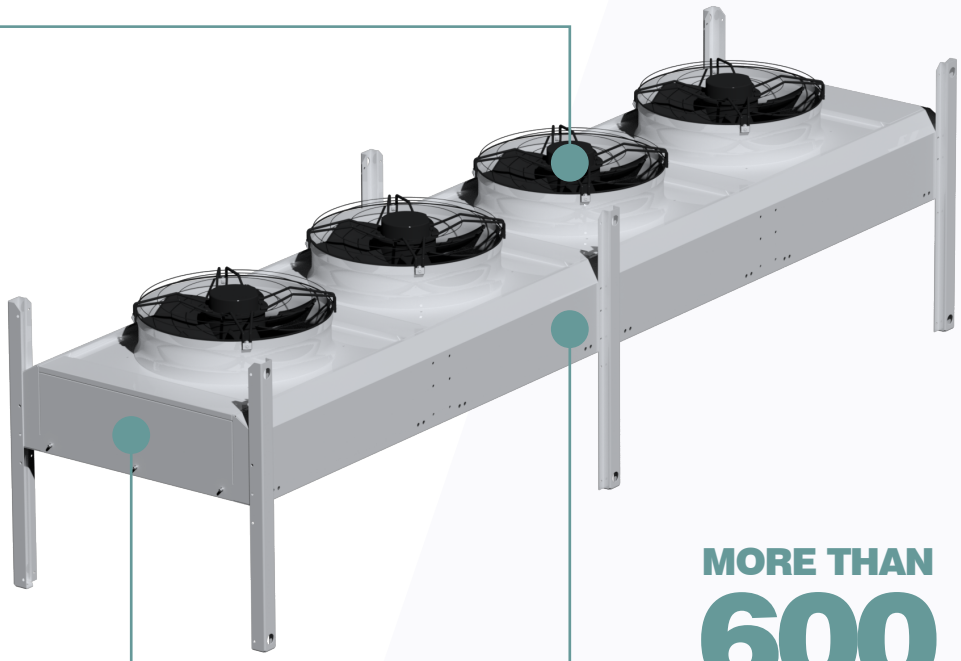
KALTRA

MISTRAL-F

Flatbed dry coolers

Axial fans

Smart fan system balanced for power consumption and low noise incorporates AC- or EC-driven fans with monitoring functionality. Additional silencing diffusers are perfect for noise-sensitive applications. Choice of fan motors allows configurations for installations in extremely low to tremendously hot ambient conditions.



MORE THAN 600 MODELS AVAILABLE

Fan speed control

Fan speed controllers, optionally available for both AC- and EC-driven fans, combined with high-precision temperature sensors, enable accurate thermal management for Mistral-F dry coolers.

Heat exchangers

Mistral-F design incorporates optimized copper tube and aluminum fins heat exchangers with various protective coatings, including epoxy coating. Optionally, we offer heat exchangers with stainless steel tubes.

Quickspecs

CAPACITY @ DT 15 K EG 35%	10 ÷ 1100 kW	FIN SPACING	2.1 / 2.4 / 3.6 mm
UNIT LENGTH	< 12500 mm	FAN DIAMETER	500 / 630 / 800 / 900 / 1000 mm
HEAT EXCHANGERS	FINNED TUBE	NUMBER OF FANS	1 ÷ 16
FIN/TUBE MATERIAL	ALUMINUM / COPPER	FAN MOTORS	AC / EC

For more information about Mistral-F series dry coolers, refer to : https://www.kaltra.com/products/dry-coolers

KALTRA

MISTRAL-F SF50

Flatbed dry coolers

www.kaltra.com

Ø 500 mm
FAN DIAMETER

10,2 ÷ 182,8 kW
CAPACITY @ DT 15K

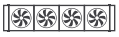
1 ÷ 8
NUMBER OF FANS

MISTRAL-F SF50-1.1

MISTRAL-F SF50-2.1

MISTRAL-F SF50-3.1

MISTRAL-F SF50-4.1



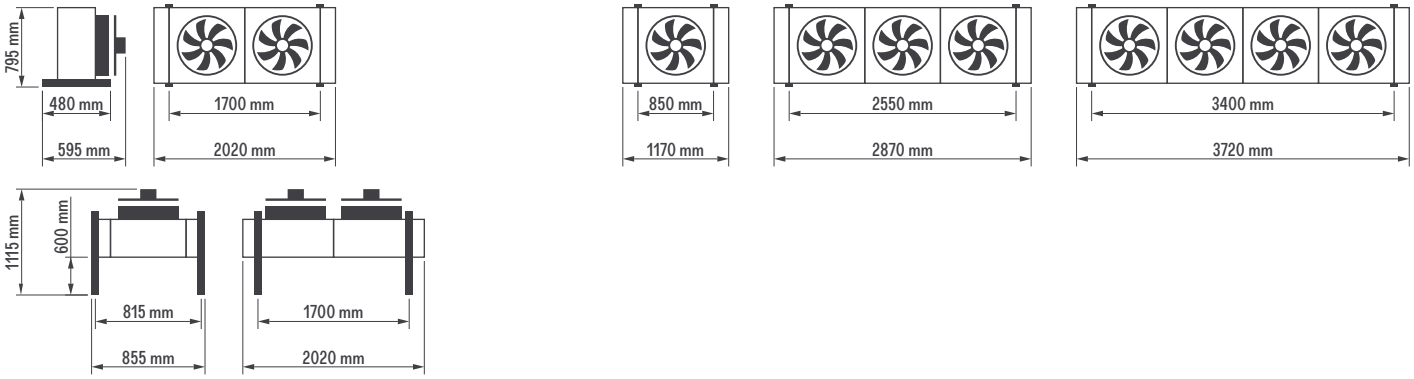
MISTRAL-F SF50-2.2

MISTRAL-F SF50-3.2

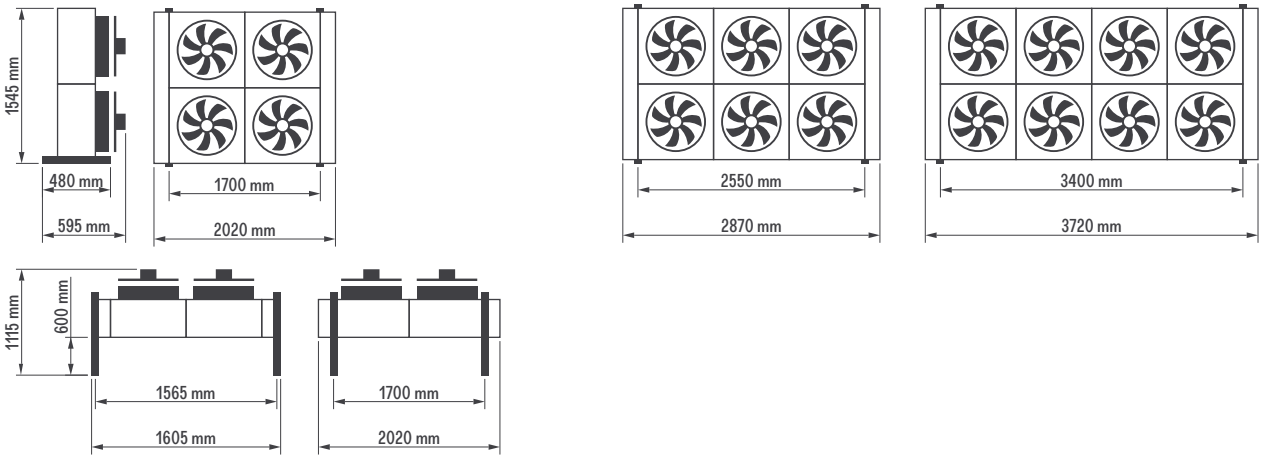
MISTRAL-F SF50-4.2

DIMENSIONS

MISTRAL-F SF50-1.1/2.1/3.1/4.1



MISTRAL-F SF50-2.2/3.2/4.2



MODEL CODE

MISTRAL-F	S	F	50	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
S	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
50	Fan diameter in dm
2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

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MISTRAL-F SF50

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 4 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF50-1.1 A 4 D	14.7	2.8	35	7900	44	1	0.72	1.4	25	50	1"
MISTRAL-F SF50-1.1 B 4 D	19.7	3.8	65	7500	44	1	0.72	1.4	38	55	1"
MISTRAL-F SF50-1.1 C 4 D	22.5	4.3	49	7150	44	1	0.72	1.4	50	60	1"1/4
MISTRAL-F SF50-2.1 A 4 D	30.8	5.9	74	15750	47	2	1.44	2.8	50	90	1"1/4
MISTRAL-F SF50-2.1 B 4 D	39.3	7.5	56	15000	47	2	1.44	2.8	75	100	1"1/2
MISTRAL-F SF50-2.1 C 4 D	45.4	8.7	55	14350	47	2	1.44	2.8	100	110	1"1/2
MISTRAL-F SF50-3.1 A 4 D	45.3	8.7	51	23650	48	3	2.16	4.2	75	130	1"1/2
MISTRAL-F SF50-3.1 B 4 D	57.9	11.1	38	22550	48	3	2.16	4.2	112	145	2"
MISTRAL-F SF50-3.1 C 4 D	68.3	13.0	57	21500	48	3	2.16	4.2	150	155	2"
MISTRAL-F SF50-4.1 A 4 D	59.1	11.3	34	31550	49	4	2.88	5.6	100	175	2"
MISTRAL-F SF50-4.1 B 4 D	79.7	15.2	73	30050	49	4	2.88	5.6	150	190	2"1/2
MISTRAL-F SF50-4.1 C 4 D	91.1	17.4	58	28700	49	4	2.88	5.6	200	210	2"1/2
MISTRAL-F SF50-2.2 A 4 D	61.6	11.8	74	31550	49	2 x 2	2.88	5.6	100	160	2x 1"1/4
MISTRAL-F SF50-2.2 B 4 D	77.3	14.8	40	30050	49	2 x 2	2.88	5.6	150	175	2x 1"1/2
MISTRAL-F SF50-2.2 C 4 D	91.3	17.4	63	28700	49	2 x 2	2.88	5.6	200	195	2x 1"1/2
MISTRAL-F SF50-3.2 A 4 D	90.7	17.3	51	47300	51	2 x 3	4.32	8.5	150	235	2x 1"1/2
MISTRAL-F SF50-3.2 B 4 D	113.8	21.7	28	45050	51	2 x 3	4.32	8.5	225	260	2x 2"
MISTRAL-F SF50-3.2 C 4 D	137.0	26.2	63	43050	51	2 x 3	4.32	8.5	300	285	2x 2"
MISTRAL-F SF50-4.2 A 4 D	118.2	22.6	34	63100	52	2 x 4	5.76	11.3	200	305	2x 2"
MISTRAL-F SF50-4.2 B 4 D	158.2	30.2	61	60100	52	2 x 4	5.76	11.3	300	340	2x 2"1/2
MISTRAL-F SF50-4.2 C 4 D	182.8	34.9	63	57400	52	2 x 4	5.76	11.3	400	375	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF50-1.1 A 6 D	12.1	2.3	56	5100	40	1	0.26	0.6	25	50	1"
MISTRAL-F SF50-1.1 B 6 D	14.9	2.9	40	4850	40	1	0.26	0.6	38	55	1"
MISTRAL-F SF50-1.1 C 6 D	16.5	3.2	29	4650	40	1	0.26	0.6	50	60	1"1/4
MISTRAL-F SF50-2.1 A 6 D	24.5	4.7	63	10200	43	2	0.52	1.3	50	90	1"1/4
MISTRAL-F SF50-2.1 B 6 D	30.2	5.8	49	9700	43	2	0.52	1.3	75	100	1"1/2
MISTRAL-F SF50-2.1 C 6 D	34.1	6.5	58	9300	43	2	0.52	1.3	100	110	1"1/2
MISTRAL-F SF50-3.1 A 6 D	36.8	7.0	65	15300	44	3	0.78	1.9	75	130	1"1/2
MISTRAL-F SF50-3.1 B 6 D	45.1	8.6	45	14600	44	3	0.78	1.9	112	145	2"
MISTRAL-F SF50-3.1 C 6 D	51.4	9.8	62	13950	44	3	0.78	1.9	150	155	2"
MISTRAL-F SF50-4.1 A 6 D	48.8	9.3	58	20400	45	4	1.04	2.5	100	175	2"
MISTRAL-F SF50-4.1 B 6 D	60.4	11.5	45	19450	45	4	1.04	2.5	150	190	2"1/2
MISTRAL-F SF50-4.1 C 6 D	68.6	13.1	64	18600	45	4	1.04	2.5	200	210	2"1/2
MISTRAL-F SF50-2.2 A 6 D	48.9	9.3	63	20400	45	2 x 2	1.04	2.5	100	160	2x 1"1/4
MISTRAL-F SF50-2.2 B 6 D	60.5	11.5	49	19450	45	2 x 2	1.04	2.5	150	175	2x 1"1/2
MISTRAL-F SF50-2.2 C 6 D	68.6	13.1	68	18600	45	2 x 2	1.04	2.5	200	195	2x 1"1/2
MISTRAL-F SF50-3.2 A 6 D	73.6	14.1	65	30650	47	2 x 3	1.56	3.8	150	235	2x 1"1/2
MISTRAL-F SF50-3.2 B 6 D	91.1	17.4	52	29150	47	2 x 3	1.56	3.8	225	260	2x 2"
MISTRAL-F SF50-3.2 C 6 D	102.8	19.6	62	27900	47	2 x 3	1.56	3.8	300	285	2x 2"
MISTRAL-F SF50-4.2 A 6 D	98.3	18.8	67	40850	48	2 x 4	2.08	5.0	200	305	2x 2"
MISTRAL-F SF50-4.2 B 6 D	121.2	23.1	49	38900	48	2 x 4	2.08	5.0	300	340	2x 2"1/2
MISTRAL-F SF50-4.2 C 6 D	137.2	26.2	64	37200	48	2 x 4	2.08	5.0	400	375	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

Performance data

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF50-1.1 A 8 D	10.2	1.9	41	3850	34	1	0.13	0.3	25	50	1"
MISTRAL-F SF50-1.1 B 8 D	12.2	2.3	28	3650	34	1	0.13	0.3	38	55	1"
MISTRAL-F SF50-1.1 C 8 D	13.5	2.6	33	3450	34	1	0.13	0.3	50	60	1"1/4
MISTRAL-F SF50-2.1 A 8 D	20.8	4.0	62	7650	37	2	0.26	0.6	50	90	1"1/4
MISTRAL-F SF50-2.1 B 8 D	24.9	4.7	47	7250	37	2	0.26	0.6	75	100	1"1/2
MISTRAL-F SF50-2.1 C 8 D	27.2	5.2	39	6900	37	2	0.26	0.6	100	110	1"1/2
MISTRAL-F SF50-3.1 A 8 D	30.9	5.9	48	11500	38	3	0.39	0.9	75	130	1"1/2
MISTRAL-F SF50-3.1 B 8 D	37.8	7.2	56	10900	38	3	0.39	0.9	112	145	2"
MISTRAL-F SF50-3.1 C 8 D	41.0	7.8	41	10350	38	3	0.39	0.9	150	155	2"
MISTRAL-F SF50-4.1 A 8 D	41.0	7.8	43	15300	39	4	0.52	1.2	100	175	2"
MISTRAL-F SF50-4.1 B 8 D	50.4	9.6	57	14550	39	4	0.52	1.2	150	190	2"1/2
MISTRAL-F SF50-4.1 C 8 D	54.7	10.4	43	13850	39	4	0.52	1.2	200	210	2"1/2
MISTRAL-F SF50-2.2 A 8 D	41.1	7.8	46	15300	39	2 x 2	0.52	1.2	100	160	2x 1"1/4
MISTRAL-F SF50-2.2 B 8 D	50.4	9.6	61	14550	39	2 x 2	0.52	1.2	150	175	2x 1"1/2
MISTRAL-F SF50-2.2 C 8 D	54.8	10.4	46	13850	39	2 x 2	0.52	1.2	200	195	2x 1"1/2
MISTRAL-F SF50-3.2 A 8 D	61.9	11.8	48	22950	41	2 x 3	0.78	1.8	150	235	2x 1"1/2
MISTRAL-F SF50-3.2 B 8 D	75.6	14.4	56	21800	41	2 x 3	0.78	1.8	225	260	2x 2"
MISTRAL-F SF50-3.2 C 8 D	81.9	15.6	41	20750	41	2 x 3	0.78	1.8	300	285	2x 2"
MISTRAL-F SF50-4.2 A 8 D	82.6	15.8	49	30600	42	2 x 4	1.04	2.4	200	305	2x 2"
MISTRAL-F SF50-4.2 B 8 D	101.1	19.3	58	29050	42	2 x 4	1.04	2.4	300	340	2x 2"1/2
MISTRAL-F SF50-4.2 C 8 D	109.4	20.9	43	27650	42	2 x 4	1.04	2.4	400	375	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F SF60

Flatbed dry coolers

www.kaltra.com

Ø 630 mm
FAN DIAMETER

13,1 ÷ 311,3 kW
CAPACITY @ DT 15K

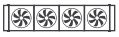
1 ÷ 8
NUMBER OF FANS

MISTRAL-F SF60-1.1

MISTRAL-F SF60-2.1

MISTRAL-F SF60-3.1

MISTRAL-F SF60-4.1



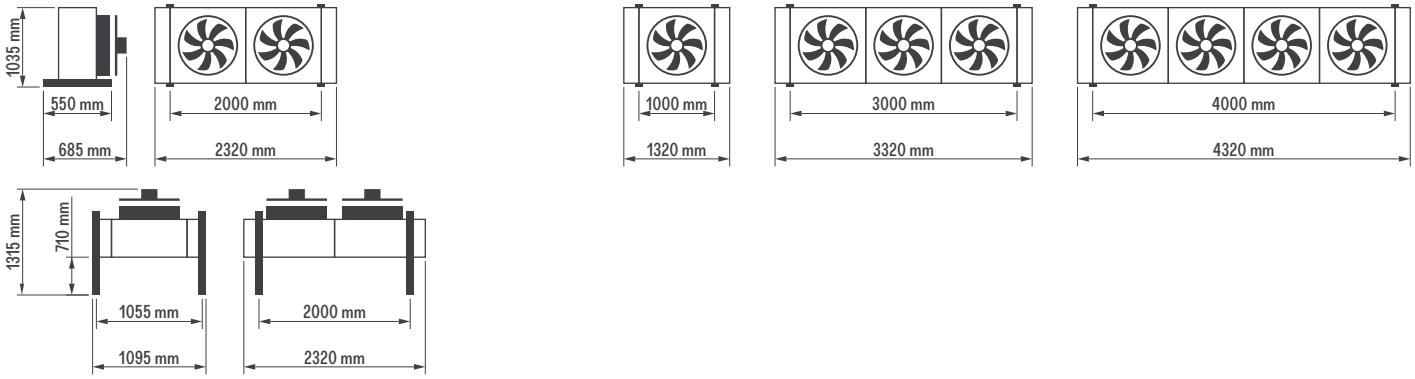
MISTRAL-F SF60-2.2

MISTRAL-F SF60-3.2

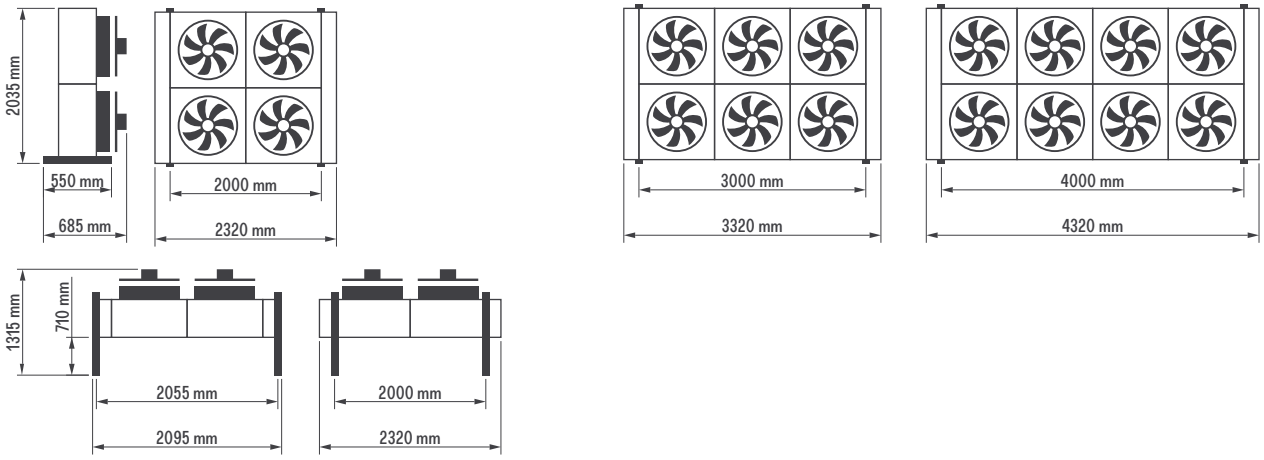
MISTRAL-F SF60-4.2

DIMENSIONS

MISTRAL-F SF60-1.1/2.1/3.1/4.1



MISTRAL-F SF60-2.2/3.2/4.2



MODEL CODE

MISTRAL-F	S	F	60	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
S	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
60	Fan diameter in dm

2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

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MISTRAL-F SF60

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 4 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF60-1.1 A 4 D	25.3	4.8	45	14650	50	1	1.97	3.4	39	75	1"
MISTRAL-F SF60-1.1 B 4 D	33.5	6.4	50	13950	50	1	1.97	3.4	59	80	1"1/4
MISTRAL-F SF60-1.1 C 4 D	39.1	7.5	48	13350	50	1	1.97	3.4	78	85	1"1/4
MISTRAL-F SF60-2.1 A 4 D	52.2	10.0	70	29300	52	2	3.94	6.8	78	140	1"1/2
MISTRAL-F SF60-2.1 B 4 D	67.5	12.9	54	27900	52	2	3.94	6.8	118	150	2"
MISTRAL-F SF60-2.1 C 4 D	78.0	14.9	42	26700	52	2	3.94	6.8	157	165	2"
MISTRAL-F SF60-3.1 A 4 D	73.9	14.1	27	43900	54	3	5.91	10.2	118	200	2"
MISTRAL-F SF60-3.1 B 4 D	95.5	18.2	21	41850	54	3	5.91	10.2	176	225	2"
MISTRAL-F SF60-3.1 C 4 D	118.5	22.6	55	40050	54	3	5.91	10.2	235	245	2"1/2
MISTRAL-F SF60-4.1 A 4 D	104.2	19.9	65	58550	55	4	7.88	13.6	157	265	2"
MISTRAL-F SF60-4.1 B 4 D	134.7	25.7	50	55800	55	4	7.88	13.6	235	295	2"1/2
MISTRAL-F SF60-4.1 C 4 D	155.7	29.7	39	53400	55	4	7.88	13.6	313	320	DN80
MISTRAL-F SF60-2.2 A 4 D	104.4	19.9	70	58550	55	2 x 2	7.88	13.6	157	250	2x 1"1/2
MISTRAL-F SF60-2.2 B 4 D	135.0	25.8	54	55800	55	2 x 2	7.88	13.6	235	280	2x 2"
MISTRAL-F SF60-2.2 C 4 D	155.9	29.8	42	53400	55	2 x 2	7.88	13.6	313	305	2x 2"
MISTRAL-F SF60-3.2 A 4 D	147.7	28.2	27	87850	57	2 x 3	11.82	20.4	235	370	2x 2"
MISTRAL-F SF60-3.2 B 4 D	205.9	39.3	74	83700	57	2 x 3	11.82	20.4	353	410	2x 2"
MISTRAL-F SF60-3.2 C 4 D	237.1	45.2	55	80100	57	2 x 3	11.82	20.4	470	455	2x 2"1/2
MISTRAL-F SF60-4.2 A 4 D	208.4	39.8	65	117100	58	2 x 4	15.76	27.2	313	490	2x 2"
MISTRAL-F SF60-4.2 B 4 D	269.5	51.4	50	111600	58	2 x 4	15.76	27.2	470	545	2x 2"1/2
MISTRAL-F SF60-4.2 C 4 D	311.3	59.4	39	106800	58	2 x 4	15.76	27.2	627	600	2x 3"

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF60-1.1 A 6 D	20.7	4.0	53	9500	39	1	0.60	1.2	39	75	1"
MISTRAL-F SF60-1.1 B 6 D	26.1	5.0	46	9050	39	1	0.60	1.2	59	80	1"1/4
MISTRAL-F SF60-1.1 C 6 D	29.9	5.7	56	8650	39	1	0.60	1.2	78	85	1"1/4
MISTRAL-F SF60-2.1 A 6 D	41.4	7.9	46	19000	41	2	1.20	2.4	78	140	1"1/2
MISTRAL-F SF60-2.1 B 6 D	53.4	10.2	66	18100	41	2	1.20	2.4	118	150	2"
MISTRAL-F SF60-2.1 C 6 D	60.4	11.5	70	17250	41	2	1.20	2.4	157	165	2"
MISTRAL-F SF60-3.1 A 6 D	62.3	11.9	53	28500	43	3	1.80	3.6	117	200	2"
MISTRAL-F SF60-3.1 B 6 D	78.9	15.1	46	27150	43	3	1.80	3.6	176	225	2"
MISTRAL-F SF60-3.1 C 6 D	88.1	16.8	32	25900	43	3	1.80	3.6	235	245	2"1/2
MISTRAL-F SF60-4.1 A 6 D	82.6	15.8	43	38000	44	4	2.40	4.8	157	265	2"
MISTRAL-F SF60-4.1 B 6 D	103.3	19.7	31	36200	44	4	2.40	4.8	235	295	2"1/2
MISTRAL-F SF60-4.1 C 6 D	121.5	23.2	75	34550	44	4	2.40	4.8	313	320	2"1/2
MISTRAL-F SF60-2.2 A 6 D	82.7	15.8	46	38000	44	2 x 2	2.40	4.8	157	250	2x 1"1/2
MISTRAL-F SF60-2.2 B 6 D	106.7	20.4	66	36200	44	2 x 2	2.40	4.8	235	280	2x 2"
MISTRAL-F SF60-2.2 C 6 D	119.5	22.8	49	34550	44	2 x 2	2.40	4.8	313	305	2x 2"
MISTRAL-F SF60-3.2 A 6 D	125.8	24.0	61	57000	46	2 x 3	3.60	7.2	235	370	2x 2"
MISTRAL-F SF60-3.2 B 6 D	157.8	30.1	46	54300	46	2 x 3	3.60	7.2	353	410	2x 2"
MISTRAL-F SF60-3.2 C 6 D	176.3	33.6	32	51800	46	2 x 3	3.60	7.2	470	455	2x 2"1/2
MISTRAL-F SF60-4.2 A 6 D	165.2	31.5	43	75950	47	2 x 4	4.80	9.6	313	490	2x 2"
MISTRAL-F SF60-4.2 B 6 D	206.5	39.4	31	72400	47	2 x 4	4.80	9.6	470	545	2x 2"1/2
MISTRAL-F SF60-4.2 C 6 D	242.9	46.4	75	69100	47	2 x 4	4.80	9.6	627	600	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

MISTRAL-F SF60

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF60-1.1 A 8 D	16.3	3.1	64	6000	32	1	0.24	0.6	39	75	1"
MISTRAL-F SF60-1.1 B 8 D	19.6	3.8	44	5750	32	1	0.24	0.6	59	80	1"1/4
MISTRAL-F SF60-1.1 C 8 D	21.4	4.1	31	5500	32	1	0.24	0.6	78	85	1"1/4
MISTRAL-F SF60-2.1 A 8 D	32.5	6.2	57	12000	34	2	0.47	1.1	78	140	1"1/2
MISTRAL-F SF60-2.1 B 8 D	40.0	7.6	66	11500	34	2	0.47	1.1	118	150	2"
MISTRAL-F SF60-2.1 C 8 D	43.1	8.2	38	11000	34	2	0.47	1.1	156	165	2"
MISTRAL-F SF60-2.2 A 8 D	65.0	12.4	57	23950	37	3	0.94	2.2	157	250	2x 1"1/2
MISTRAL-F SF60-2.2 B 8 D	79.9	15.3	66	22950	37	3	0.94	2.2	235	280	2x 2"
MISTRAL-F SF60-2.2 C 8 D	86.7	16.5	44	22050	37	3	0.94	2.2	313	305	2x 2"
MISTRAL-F SF60-3.1 A 8 D	49.7	9.5	93	17950	36	4	0.71	1.7	118	200	2"
MISTRAL-F SF60-3.1 B 8 D	59.9	11.4	63	17250	36	4	0.71	1.7	176	225	2"
MISTRAL-F SF60-3.1 C 8 D	65.2	12.4	44	16550	36	4	0.71	1.7	235	245	2"1/2
MISTRAL-F SF60-3.2 A 8 D	95.7	18.3	37	35950	39	2 x 2	1.41	3.3	235	370	2x 2"
MISTRAL-F SF60-3.2 B 8 D	119.8	22.9	63	34450	39	2 x 2	1.41	3.3	353	410	2x 2"
MISTRAL-F SF60-3.2 C 8 D	130.3	24.9	44	33050	39	2 x 2	1.41	3.3	470	455	2x 2"1/2
MISTRAL-F SF60-4.1 A 8 D	62.8	12.0	27	23950	37	2 x 3	0.94	2.2	157	265	2"
MISTRAL-F SF60-4.1 B 8 D	79.8	15.2	62	22950	37	2 x 3	0.94	2.2	235	295	2"1/2
MISTRAL-F SF60-4.1 C 8 D	86.7	16.5	41	22050	37	2 x 3	0.94	2.2	313	320	2"1/2
MISTRAL-F SF60-4.2 A 8 D	125.6	24.0	27	47900	40	2 x 4	1.88	4.4	313	490	2x 2"
MISTRAL-F SF60-4.2 B 8 D	159.7	30.5	62	45950	40	2 x 4	1.88	4.4	470	545	2x 2"1/2
MISTRAL-F SF60-4.2 C 8 D	173.4	33.1	41	44100	40	2 x 4	1.88	4.4	627	600	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 12 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF60-1.1 A 12 D	13.1	2.5	44	4250	25	1	0.1	0.27	39	75	1"
MISTRAL-F SF60-1.1 B 12 D	15.2	2.9	28	4050	25	1	0.1	0.27	59	80	1"1/4
MISTRAL-F SF60-1.1 C 12 D	16.0	3.1	18	3850	25	1	0.1	0.27	78	85	1"1/4
MISTRAL-F SF60-2.1 A 12 D	26.4	5.0	56	8550	27	2	0.2	0.54	78	140	1"1/2
MISTRAL-F SF60-2.1 B 12 D	30.8	5.9	42	8100	27	2	0.2	0.54	118	150	2"
MISTRAL-F SF60-2.1 C 12 D	32.4	6.2	24	7700	27	2	0.2	0.54	157	165	2"
MISTRAL-F SF60-3.1 A 12 D	39.9	7.6	63	12800	29	3	0.3	0.81	118	200	2"
MISTRAL-F SF60-3.1 B 12 D	46.3	8.8	40	12150	29	3	0.3	0.81	176	225	2"
MISTRAL-F SF60-3.1 C 12 D	48.7	9.3	26	11600	29	3	0.3	0.81	235	245	2"1/2
MISTRAL-F SF60-4.1 A 12 D	52.8	10.1	52	17100	30	4	0.4	1.08	157	265	2"
MISTRAL-F SF60-4.1 B 12 D	61.7	11.8	39	16200	30	4	0.4	1.08	235	295	2"1/2
MISTRAL-F SF60-4.1 C 12 D	65.0	12.4	25	15450	30	4	0.4	1.08	313	320	2"1/2
MISTRAL-F SF60-2.2 A 12 D	52.8	10.1	56	17100	30	2 x 2	0.4	1.08	157	250	2x 1"1/2
MISTRAL-F SF60-2.2 B 12 D	61.6	11.8	42	16200	30	2 x 2	0.4	1.08	235	280	2x 2"
MISTRAL-F SF60-2.2 C 12 D	65.0	12.4	26	15450	30	2 x 2	0.4	1.08	313	305	2x 2"
MISTRAL-F SF60-3.2 A 12 D	79.9	15.2	63	25600	32	2 x 3	0.7	1.62	235	370	2x 2"
MISTRAL-F SF60-3.2 B 12 D	92.5	17.7	40	24300	32	2 x 3	0.7	1.62	353	410	2x 2"
MISTRAL-F SF60-3.2 C 12 D	97.6	18.6	26	23150	32	2 x 3	0.7	1.62	470	455	2x 2"1/2
MISTRAL-F SF60-4.2 A 12 D	106.2	20.3	59	34150	33	2 x 4	0.9	2.16	313	490	2x 2"
MISTRAL-F SF60-4.2 B 12 D	123.3	23.5	39	32400	33	2 x 4	0.9	2.16	470	545	2x 2"1/2
MISTRAL-F SF60-4.2 C 12 D	130.0	24.8	25	30900	33	2 x 4	0.9	2.16	627	600	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F F60

Flatbed dry coolers

www.kaltra.com

Ø 630 mm
FAN DIAMETER

14,6 ÷ 359,5 kW
CAPACITY @ DT 15K

1 ÷ 6
NUMBER OF FANS

MISTRAL-F F60-1.1

MISTRAL-F F60-2.1

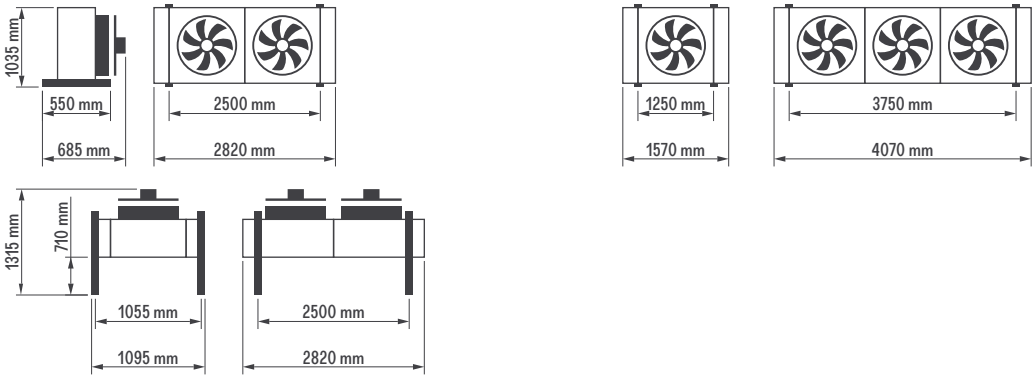
MISTRAL-F F60-3.1

MISTRAL-F F60-2.2

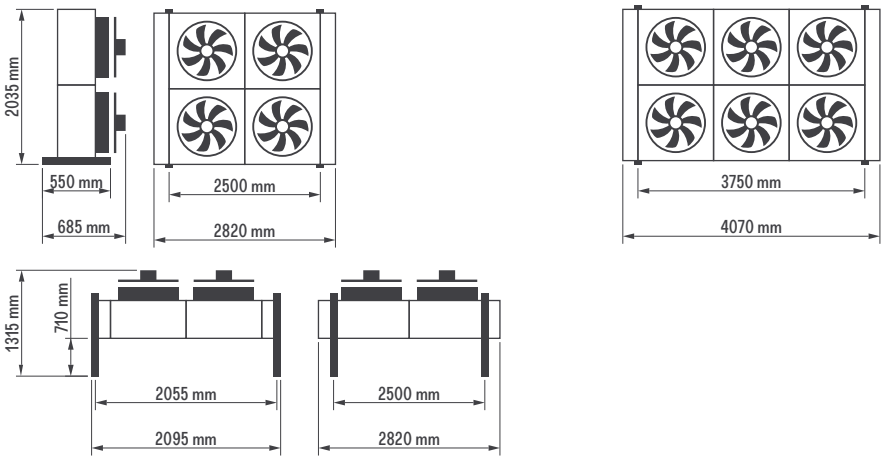
MISTRAL-F F60-3.2

DIMENSIONS

MISTRAL-F F60-1.1/2.1/3.1



MISTRAL-F F60-2.2/3.2



MODEL CODE

MISTRAL-F	-	F	60	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
-	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
60	Fan diameter in dm

2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

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MISTRAL-F F60

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 4 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F60-1.1 A 4 D	29.5	5.6	68	15100	50	1	1.97	3.4	49	80	1"
MISTRAL-F F60-1.1 B 4 D	38.2	7.3	54	14600	50	1	1.97	3.4	73	90	1"1/4
MISTRAL-F F60-1.1 C 4 D	45.1	8.6	73	14100	50	1	1.97	3.4	98	100	1"1/4
MISTRAL-F F60-2.1 A 4 D	58.3	11.1	49	30250	52	2	3.94	6.8	98	155	1"1/2
MISTRAL-F F60-2.1 B 4 D	73.7	14.1	26	29200	52	2	3.94	6.8	147	175	2"
MISTRAL-F F60-2.1 C 4 D	90.0	17.2	66	28250	52	2	3.94	6.8	196	190	2"
MISTRAL-F F60-3.1 A 4 D	87.4	16.7	45	45350	54	3	5.91	10.2	147	230	2"
MISTRAL-F F60-3.1 B 4 D	112.4	21.5	34	43800	54	3	5.91	10.2	220	255	2"
MISTRAL-F F60-3.1 C 4 D	134.7	25.7	63	42400	54	3	5.91	10.2	294	280	2"1/2
MISTRAL-F F60-4.1 A 4 D	105.5	20.1	12	60450	55	4	7.88	13.6	196	305	2"
MISTRAL-F F60-4.1 B 4 D	156.3	29.8	81	58400	55	4	7.88	13.6	294	340	2"1/2
MISTRAL-F F60-4.1 C 4 D	179.7	34.3	62	56500	55	4	7.88	13.6	392	370	2"1/2
MISTRAL-F F60-2.2 A 4 D	114.7	21.9	36	60450	55	2 x 2	7.88	13.6	196	285	2x 1"1/2
MISTRAL-F F60-2.2 B 4 D	148.0	28.3	28	58400	55	2 x 2	7.88	13.6	294	315	2x 2"
MISTRAL-F F60-2.2 C 4 D	179.9	34.3	66	56500	55	2 x 2	7.88	13.6	392	350	2x 2"
MISTRAL-F F60-3.2 A 4 D	174.9	33.4	45	90700	57	2 x 3	11.82	20.4	294	415	2x 2"
MISTRAL-F F60-3.2 B 4 D	224.7	42.9	34	87550	57	2 x 3	11.82	20.4	441	470	2x 2"
MISTRAL-F F60-3.2 C 4 D	269.4	51.4	63	84750	57	2 x 3	11.82	20.4	587	520	2x 2"1/2
MISTRAL-F F60-4.2 A 4 D	211.0	40.3	12	120950	58	2 x 4	15.76	27.2	392	550	2x 2"
MISTRAL-F F60-4.2 B 4 D	312.5	59.6	81	116750	58	2 x 4	15.76	27.2	588	620	2x 2"1/2
MISTRAL-F F60-4.2 C 4 D	359.5	68.6	62	113000	58	2 x 4	15.76	27.2	784	690	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F60-1.1 A 6 D	23.2	4.4	45	9800	39	1	0.60	1.2	49	80	1"
MISTRAL-F F60-1.1 B 6 D	29.8	5.7	70	9450	39	1	0.60	1.2	73	90	1"1/4
MISTRAL-F F60-1.1 C 6 D	33.5	6.4	59	9150	39	1	0.60	1.2	98	100	1"1/4
MISTRAL-F F60-2.1 A 6 D	47.8	9.1	73	19600	41	2	1.20	2.4	98	155	1"1/2
MISTRAL-F F60-2.1 B 6 D	59.3	11.3	52	18950	41	2	1.20	2.4	147	175	2"
MISTRAL-F F60-2.1 C 6 D	67.4	12.9	62	18300	41	2	1.20	2.4	196	190	2"
MISTRAL-F F60-3.1 A 6 D	68.6	13.1	29	29450	43	3	1.80	3.6	147	230	2"
MISTRAL-F F60-3.1 B 6 D	88.7	16.9	47	28400	43	3	1.80	3.6	220	255	2"
MISTRAL-F F60-3.1 C 6 D	99.2	18.9	37	27450	43	3	1.80	3.6	294	280	2"1/2
MISTRAL-F F60-2.2 A 6 D	95.6	18.3	73	39250	44	2 x 2	2.40	4.8	196	285	2x 1"1/2
MISTRAL-F F60-2.2 B 6 D	118.6	22.6	52	37850	44	2 x 2	2.40	4.8	294	315	2x 2"
MISTRAL-F F60-2.2 C 6 D	134.7	25.7	62	36600	44	2 x 2	2.40	4.8	392	350	2x 2"
MISTRAL-F F60-3.2 A 6 D	137.2	26.2	29	58850	46	2 x 3	3.60	7.2	294	415	2x 2"
MISTRAL-F F60-3.2 B 6 D	177.8	33.9	51	56800	46	2 x 3	3.60	7.2	441	470	2x 2"
MISTRAL-F F60-3.2 C 6 D	198.4	37.9	37	54950	46	2 x 3	3.60	7.2	587	520	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F60-1.1 A 8 D	17.9	3.4	59	6150	32	1	0.24	0.6	49	80	1"
MISTRAL-F F60-1.1 B 8 D	21.6	4.1	40	5950	32	1	0.24	0.6	74	90	1"1/4
MISTRAL-F F60-1.1 C 8 D	23.5	4.5	31	5800	32	1	0.24	0.6	98	100	1"1/4
MISTRAL-F F60-2.1 A 8 D	36.3	6.9	61	12300	34	2	0.47	1.1	98	155	1"1/2
MISTRAL-F F60-2.1 B 8 D	43.4	8.3	45	11900	34	2	0.47	1.1	147	175	2"
MISTRAL-F F60-2.1 C 8 D	47.1	9.0	32	11600	34	2	0.47	1.1	196	190	2"
MISTRAL-F F60-3.1 A 8 D	54.4	10.4	63	18450	36	3	0.71	1.7	147	230	2"
MISTRAL-F F60-3.1 B 8 D	63.9	12.2	27	17900	36	3	0.71	1.7	220	255	2"
MISTRAL-F F60-3.1 C 8 D	71.0	13.5	34	17400	36	3	0.71	1.7	294	280	2"1/2
MISTRAL-F F60-2.2 A 8 D	73.0	13.9	72	24600	37	2 x 2	0.94	2.2	196	285	2x 1"1/2
MISTRAL-F F60-2.2 B 8 D	87.2	16.7	51	23850	37	2 x 2	0.94	2.2	294	315	2x 2"
MISTRAL-F F60-2.2 C 8 D	94.5	18.0	33	23200	37	2 x 2	0.94	2.2	392	350	2x 2"
MISTRAL-F F60-3.2 A 8 D	107.3	20.5	42	36900	39	2 x 3	1.41	3.3	294	415	2x 2"
MISTRAL-F F60-3.2 B 8 D	128.2	24.5	28	35750	39	2 x 3	1.41	3.3	441	470	2x 2"
MISTRAL-F F60-3.2 C 8 D	142.0	27.1	34	34800	39	2 x 3	1.41	3.3	588	520	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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Performance data

3 PH 12 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F60-1.1 A 12 D	14.6	2.8	46	4450	25	1	0.11	0.3	49	80	1"
MISTRAL-F F60-1.1 B 12 D	16.6	3.2	25	4250	25	1	0.11	0.3	74	90	1"1/4
MISTRAL-F F60-1.1 C 12 D	17.6	3.4	19	4100	25	1	0.11	0.3	98	100	1"1/4
MISTRAL-F F60-2.1 A 12 D	29.1	5.6	41	8850	27	2	0.22	0.5	98	155	1"1/2
MISTRAL-F F60-2.1 B 12 D	33.5	6.4	28	8500	27	2	0.22	0.5	147	175	2"
MISTRAL-F F60-2.1 C 12 D	35.4	6.8	20	8200	27	2	0.22	0.5	196	190	2"
MISTRAL-F F60-3.1 A 12 D	43.6	8.3	43	13300	29	3	0.33	0.8	147	230	2"
MISTRAL-F F60-3.1 B 12 D	50.3	9.6	30	12750	29	3	0.33	0.8	220	255	2"
MISTRAL-F F60-3.1 C 12 D	53.2	10.2	20	12300	29	3	0.33	0.8	294	280	2"1/2
MISTRAL-F F60-2.2 A 12 D	58.5	11.2	49	17750	30	2 x 2	0.44	1.1	196	285	2x 1"1/2
MISTRAL-F F60-2.2 B 12 D	67.2	12.8	32	16950	30	2 x 2	0.44	1.1	294	315	2x 2"
MISTRAL-F F60-2.2 C 12 D	70.9	13.5	20	16400	30	2 x 2	0.44	1.1	392	350	2x 2"
MISTRAL-F F60-3.2 A 12 D	86.0	16.4	29	26600	32	2 x 3	0.66	1.6	294	415	2x 2"
MISTRAL-F F60-3.2 B 12 D	100.6	19.2	30	25450	32	2 x 3	0.66	1.6	441	470	2x 2"
MISTRAL-F F60-3.2 C 12 D	106.4	20.3	20	24650	32	2 x 3	0.66	1.6	588	520	2x 2"1/2

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F SF80

Flatbed dry coolers

www.kaltra.com

Ø 800 mm
FAN DIAMETER

32,2 ÷ 864,0 kW
CAPACITY @ DT 15K

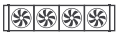
1 ÷ 16
NUMBER OF FANS

MISTRAL-F SF80-1.1

MISTRAL-F SF80-2.1

MISTRAL-F SF80-3.1

MISTRAL-F SF80-4.1



MISTRAL-F SF80-5.1

MISTRAL-F SF80-2.2

MISTRAL-F SF80-3.2

MISTRAL-F SF80-4.2

MISTRAL-F SF80-5.2

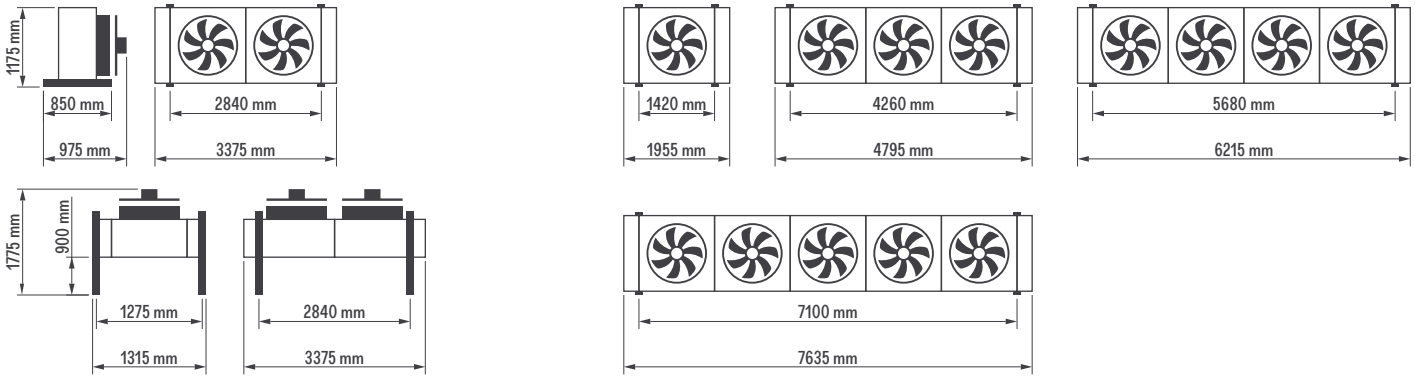
MISTRAL-F SF80-6.2

MISTRAL-F SF80-7.2

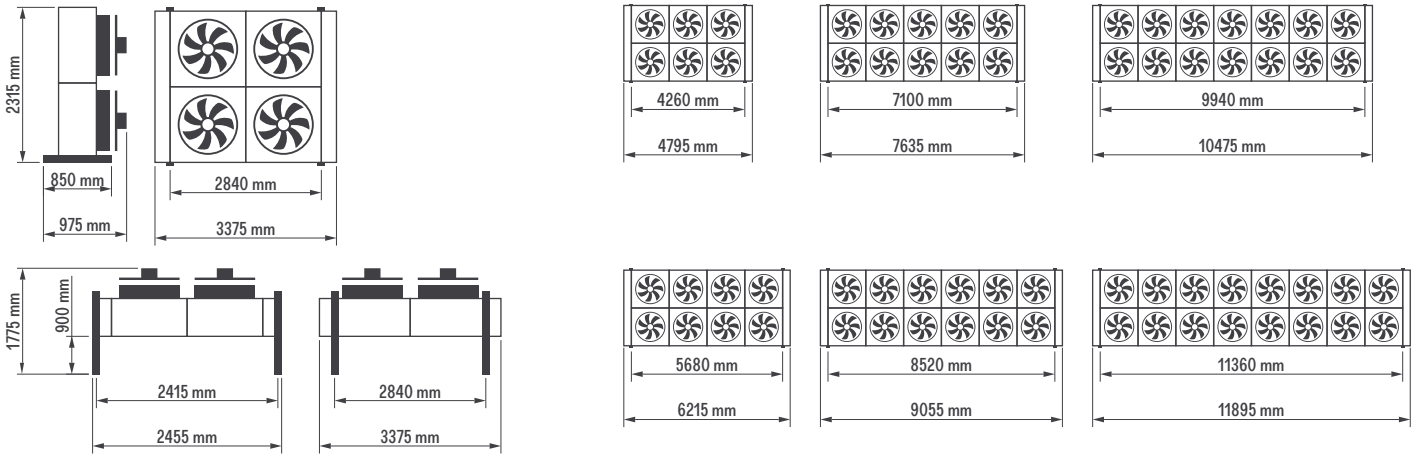
MISTRAL-F SF80-8.2

DIMENSIONS

MISTRAL-F SF80-1.1/2.1/3.1/4.1/5.1



MISTRAL-F SF80-2.2/3.2/4.2/5.2/6.2/7.2/8.2



MODEL CODE

MISTRAL-F	S	F	80	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
S	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
80	Fan diameter in dm
2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

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MISTRAL-F SF80

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF80-1.1 B 6 D	47.5	9.1	29	17300	46	1	1.72	3.9	117	155	1" 1/2
MISTRAL-F SF80-1.1 C 6 D	55.2	10.5	53	16150	46	1	1.72	3.9	157	170	1" 1/2
MISTRAL-F SF80-2.1 B 6 D	93.9	17.9	21	34600	49	2	3.44	7.8	235	290	2"
MISTRAL-F SF80-2.1 C 6 D	110.3	21.0	48	32300	49	2	3.44	7.8	313	315	2"
MISTRAL-F SF80-3.1 B 6 D	149.8	28.6	70	51900	51	3	5.16	11.7	353	430	2" 1/2
MISTRAL-F SF80-3.1 C 6 D	166.1	31.7	51	48450	51	3	5.16	11.7	470	465	DN80
MISTRAL-F SF80-4.1 B 6 D	187.4	35.8	20	69200	52	4	6.88	15.6	470	565	DN80
MISTRAL-F SF80-4.1 C 6 D	208.1	39.7	14	64600	52	4	6.88	15.6	627	615	DN80
MISTRAL-F SF80-5.1 B 6 D	243.5	46.5	39	86500	53	5	8.60	19.5	588	700	DN100
MISTRAL-F SF80-5.1 C 6 D	270.3	51.6	28	80750	53	5	8.60	19.5	784	760	DN100
MISTRAL-F SF80-2.2 B 6 D	187.8	35.8	21	69200	52	2 x 2	6.88	15.6	470	555	2x 2"
MISTRAL-F SF80-2.2 C 6 D	220.9	42.2	48	64600	52	2 x 2	6.88	15.6	627	600	2x 2"
MISTRAL-F SF80-3.2 B 6 D	299.6	57.2	70	103800	54	2 x 3	10.32	23.4	705	815	2x 2" 1/2
MISTRAL-F SF80-3.2 C 6 D	332.2	63.4	51	96900	54	2 x 3	10.32	23.4	941	885	2x 3"
MISTRAL-F SF80-4.2 B 6 D	374.9	71.6	20	138350	55	2 x 4	13.76	31.2	941	1075	2x 3"
MISTRAL-F SF80-4.2 C 6 D	416.1	79.4	14	129150	55	2 x 4	13.76	31.2	1254	1170	2x 3"
MISTRAL-F SF80-5.2 B 6 D	487.0	92.9	39	172950	55	2 x 5	17.20	39.0	1176	1335	2x DN100
MISTRAL-F SF80-5.2 C 6 D	540.5	103.2	28	161450	55	2 x 5	17.20	39.0	1568	1455	2x DN100
MISTRAL-F SF80-6.2 B 6 D	598.8	114.3	68	207550	56	2 x 6	20.64	46.8	1411	1595	2x DN100
MISTRAL-F SF80-6.2 C 6 D	664.0	126.7	49	193750	56	2 x 6	20.64	46.8	1881	1740	2x DN100
MISTRAL-F SF80-7.2 B 6 D	683.3	130.4	33	229050	57	2 x 7	24.08	54.6	1564	1855	2x DN100
MISTRAL-F SF80-7.2 C 6 D	744.4	142.1	23	211300	57	2 x 7	24.08	54.6	2086	2025	2x DN100
MISTRAL-F SF80-8.2 B 6 D	793.7	151.5	49	261800	57	2 x 8	27.52	62.4	1788	2115	2x DN100
MISTRAL-F SF80-8.2 C 6 D	864.0	164.9	34	241500	57	2 x 8	27.52	62.4	2384	2310	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F SF80-1.1 A 8 D	32.2	6.2	28	13600	39	1	0.77	2.2	78	145	1" 1/2
MISTRAL-F SF80-1.1 B 8 D	40.7	7.8	48	12600	39	1	0.77	2.2	118	155	1" 1/2
MISTRAL-F SF80-1.1 C 8 D	44.6	8.5	56	11750	39	1	0.77	2.2	157	170	1" 1/2
MISTRAL-F SF80-2.1 A 8 D	63.8	12.2	22	27250	42	2	1.54	4.4	157	265	2"
MISTRAL-F SF80-2.1 B 8 D	81.3	15.5	44	25250	42	2	1.54	4.4	235	290	2"
MISTRAL-F SF80-2.1 C 8 D	87.8	16.8	32	23500	42	2	1.54	4.4	313	315	2"
MISTRAL-F SF80-3.1 A 8 D	102.0	19.5	73	40900	44	3	2.31	6.7	235	390	2" 1/2
MISTRAL-F SF80-3.1 B 8 D	122.6	23.4	49	37850	44	3	2.31	6.7	353	430	2" 1/2
MISTRAL-F SF80-3.1 C 8 D	132.3	25.2	34	35250	44	3	2.31	6.7	470	465	DN80
MISTRAL-F SF80-4.1 A 8 D	127.3	24.3	20	54500	45	4	3.08	8.9	314	515	DN80
MISTRAL-F SF80-4.1 B 8 D	153.4	29.3	14	50500	45	4	3.08	8.9	470	565	DN80
MISTRAL-F SF80-4.1 C 8 D	181.1	34.5	78	47000	45	4	3.08	8.9	627	615	DN80
MISTRAL-F SF80-5.1 A 8 D	165.6	31.6	41	68100	46	5	3.85	11.1	392	640	DN100
MISTRAL-F SF80-5.1 B 8 D	199.4	38.1	28	63100	46	5	3.85	11.1	588	700	DN100
MISTRAL-F SF80-5.1 C 8 D	215.3	41.1	19	58700	46	5	3.85	11.1	784	760	DN100
MISTRAL-F SF80-2.2 A 8 D	127.5	24.3	22	54500	45	2 x 2	3.08	8.9	314	505	2x 1 1/4"
MISTRAL-F SF80-2.2 B 8 D	162.6	31.0	44	50500	45	2 x 2	3.08	8.9	470	555	2x 2"
MISTRAL-F SF80-2.2 C 8 D	175.9	33.6	32	47000	45	2 x 2	3.08	8.9	627	600	2x 2"
MISTRAL-F SF80-3.2 A 8 D	203.8	38.9	73	81750	47	2 x 3	4.62	13.3	470	740	2x 2" 1/2
MISTRAL-F SF80-3.2 B 8 D	245.3	46.8	49	75750	47	2 x 3	4.62	13.3	705	815	2x 2" 1/2
MISTRAL-F SF80-3.2 C 8 D	264.6	50.5	34	70450	47	2 x 3	4.62	13.3	941	885	2x 3"
MISTRAL-F SF80-4.2 A 8 D	254.7	48.6	20	109000	48	2 x 4	6.16	17.8	627	975	2x 3"
MISTRAL-F SF80-4.2 B 8 D	306.7	58.5	14	101000	48	2 x 4	6.16	17.8	941	1075	2x 3"
MISTRAL-F SF80-4.2 C 8 D	362.3	69.1	78	93950	48	2 x 4	6.16	17.8	1254	1170	2x 3"
MISTRAL-F SF80-5.2 A 8 D	331.1	63.2	41	136250	48	2 x 5	7.70	22.2	784	1215	2x DN100
MISTRAL-F SF80-5.2 B 8 D	398.8	76.1	28	126250	48	2 x 5	7.70	22.2	1176	1335	2x DN100
MISTRAL-F SF80-5.2 C 8 D	430.6	82.2	19	117450	48	2 x 5	7.70	22.2	1568	1455	2x DN100
MISTRAL-F SF80-6.2 A 8 D	407.3	77.7	70	163500	49	2 x 6	9.24	26.6	941	1450	2x DN100
MISTRAL-F SF80-6.2 B 8 D	490.1	93.5	48	151500	49	2 x 6	9.24	26.6	1411	1595	2x DN100
MISTRAL-F SF80-6.2 C 8 D	528.9	100.9	33	140950	49	2 x 6	9.24	26.6	1881	1740	2x DN100
MISTRAL-F SF80-7.2 A 8 D	469.3	89.6	35	182900	50	2 x 7	10.78	31.1	1043	1685	2x DN100
MISTRAL-F SF80-7.2 B 8 D	552.8	105.5	23	166650	50	2 x 7	10.78	31.1	1564	1855	2x DN100
MISTRAL-F SF80-7.2 C 8 D	585.4	111.7	15	153100	50	2 x 7	10.78	31.1	2086	2025	2x DN100
MISTRAL-F SF80-8.2 A 8 D	545.3	104.1	51	209000	50	2 x 8	12.32	35.5	1192	1920	2x DN100
MISTRAL-F SF80-8.2 B 8 D	641.9	122.5	34	190450	50	2 x 8	12.32	35.5	1788	2115	2x DN100
MISTRAL-F SF80-8.2 C 8 D	679.4	129.6	22	174950	50	2 x 8	12.32	35.5	2384	2310	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F F80

Flatbed dry coolers

www.kaltra.com

Ø 800 mm
FAN DIAMETER

38,6 ÷ 782,9 kW
CAPACITY @ DT 15K

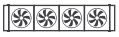
1 ÷ 12
NUMBER OF FANS

MISTRAL-F F80-1.1

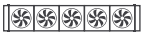
MISTRAL-F F80-2.1

MISTRAL-F F80-3.1

MISTRAL-F F80-4.1



MISTRAL-F F80-5.1



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MISTRAL-F F80-3.2

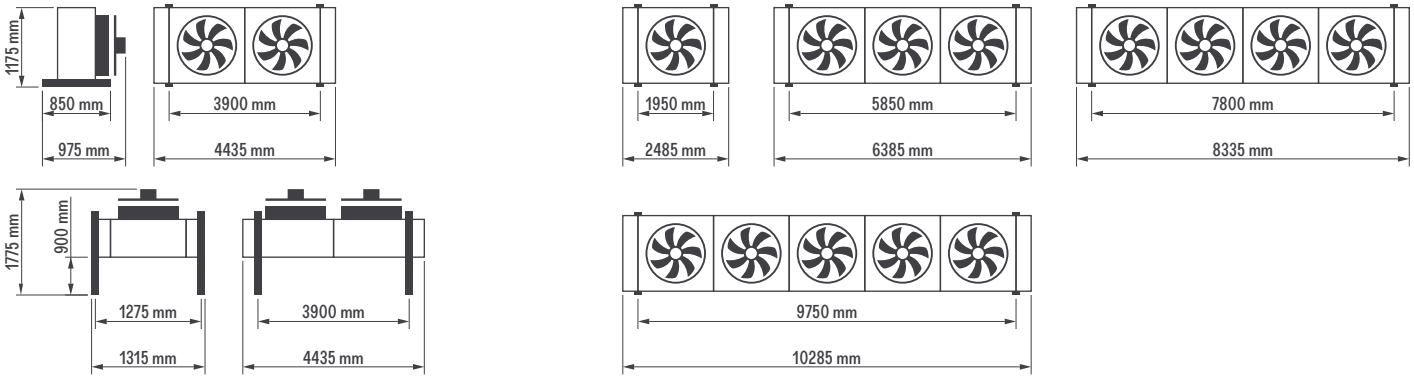
MISTRAL-F F80-4.2

MISTRAL-F F80-5.2

MISTRAL-F F80-6.2

DIMENSIONS

MISTRAL-F F80-1.1/2.1/3.1/4.1/5.1



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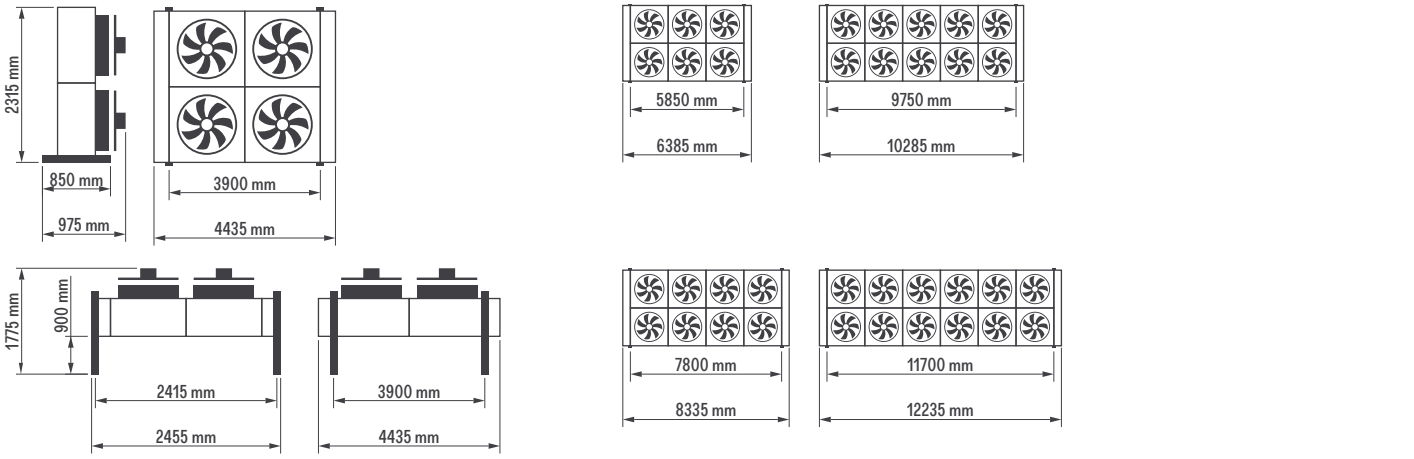

MODEL CODE

MISTRAL-F	-	F	80	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
-	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
80	Fan diameter in dm

2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

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MISTRAL-F F80

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F80-1.1 B 6 D	59.2	11.3	47	19100	46	1	1.72	3.9	161	190	1" 1/2
MISTRAL-F F80-1.1 C 6 D	67.1	12.8	66	18200	46	1	1.72	3.9	215	205	2"
MISTRAL-F F80-2.1 B 6 D	118.4	22.6	43	38200	49	2	3.44	7.8	323	355	2"
MISTRAL-F F80-2.1 C 6 D	130.9	25.0	31	36400	49	2	3.44	7.8	431	390	DN80
MISTRAL-F F80-3.1 B 6 D	169.4	32.3	17	57350	51	3	5.16	11.7	484	525	DN80
MISTRAL-F F80-3.1 C 6 D	187.4	35.8	12	54550	51	3	5.16	11.7	646	575	DN100
MISTRAL-F F80-4.1 B 6 D	236.6	45.2	41	76450	52	4	6.88	15.6	646	690	DN100
MISTRAL-F F80-4.1 C 6 D	261.6	49.9	29	72750	52	4	6.88	15.6	861	760	DN100
MISTRAL-F F80-5.1 B 6 D	292.7	55.9	24	91800	52	5	8.60	19.5	767	860	DN100
MISTRAL-F F80-5.1 C 6 D	319.5	61.0	17	86700	52	5	8.60	19.5	1023	945	DN100
MISTRAL-F F80-2.2 B 6 D	236.8	45.2	43	76450	52	2 x 2	6.88	15.6	646	670	2 x 2"
MISTRAL-F F80-2.2 C 6 D	261.8	50.0	31	72750	52	2 x 2	6.88	15.6	861	740	2 x 3"
MISTRAL-F F80-3.2 B 6 D	338.8	64.7	17	114650	53	2 x 3	10.32	23.4	969	990	2 x 3"
MISTRAL-F F80-3.2 C 6 D	374.9	71.5	12	109100	53	2 x 3	10.32	23.4	1292	1090	2x DN100
MISTRAL-F F80-4.2 B 6 D	473.1	90.3	41	152900	54	2 x 4	13.76	31.2	1292	1310	2x DN100
MISTRAL-F F80-4.2 C 6 D	523.2	99.9	29	145500	54	2 x 4	13.76	31.2	1722	1445	2x DN100
MISTRAL-F F80-5.2 B 6 D	585.5	111.7	24	183600	55	2 x 5	17.20	39.0	1534	1630	2x DN100
MISTRAL-F F80-5.2 C 6 D	639.0	122.0	17	173400	55	2 x 5	17.20	39.0	2046	1800	2x DN100
MISTRAL-F F80-6.2 B 6 D	718.0	137.0	42	220300	56	2 x 6	20.64	46.8	1841	1950	2x DN100
MISTRAL-F F80-6.2 C 6 D	782.9	149.4	30	208050	56	2 x 6	20.64	46.8	2455	2150	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F80-1.1 A 8 D	38.6	7.4	23	14650	39	1	0.77	2.2	108	170	1" 1/2
MISTRAL-F F80-1.1 B 8 D	48.6	9.3	50	13900	39	1	0.77	2.2	161	190	1" 1/2
MISTRAL-F F80-1.1 C 8 D	53.0	10.1	43	13250	39	1	0.77	2.2	215	205	2"
MISTRAL-F F80-2.1 A 8 D	80.0	15.3	44	29300	42	2	1.54	4.4	215	320	2"
MISTRAL-F F80-2.1 B 8 D	95.6	18.2	29	27800	42	2	1.54	4.4	323	355	2"
MISTRAL-F F80-2.1 C 8 D	105.9	20.2	40	26550	42	2	1.54	4.4	430	390	DN80
MISTRAL-F F80-3.1 A 8 D	114.3	21.8	17	43950	44	3	2.31	6.7	323	475	DN80
MISTRAL-F F80-3.1 B 8 D	136.6	26.1	12	41700	44	3	2.31	6.7	484	525	DN80
MISTRAL-F F80-3.1 C 8 D	161.1	30.7	65	39800	44	3	2.31	6.7	646	575	DN100
MISTRAL-F F80-4.1 A 8 D	159.8	30.5	42	58600	45	4	3.08	8.9	431	625	DN100
MISTRAL-F F80-4.1 B 8 D	191.0	36.4	28	55600	45	4	3.08	8.9	646	690	DN100
MISTRAL-F F80-4.1 C 8 D	206.6	39.4	19	53100	45	4	3.08	8.9	861	760	DN100
MISTRAL-F F80-5.1 A 8 D	199.4	38.1	25	71200	45	5	3.85	11.1	512	775	DN100
MISTRAL-F F80-5.1 B 8 D	234.7	44.8	17	66900	45	5	3.85	11.1	767	860	DN100
MISTRAL-F F80-5.1 C 8 D	264.6	50.0	84	63200	45	5	3.85	11.1	1023	945	DN100
MISTRAL-F F80-2.2 A 8 D	160.0	30.5	44	58600	45	2 x 2	3.08	8.9	431	605	2 x 1 1/2"
MISTRAL-F F80-2.2 B 8 D	191.1	36.5	29	55600	45	2 x 2	3.08	8.9	646	670	2 x 2"
MISTRAL-F F80-2.2 C 8 D	212.0	40.4	41	53100	45	2 x 2	3.08	8.9	861	740	2 x 3"
MISTRAL-F F80-3.2 A 8 D	228.7	43.7	17	87850	46	2 x 3	4.62	13.3	646	890	2 x 3"
MISTRAL-F F80-3.2 B 8 D	273.3	52.2	12	83450	46	2 x 3	4.62	13.3	969	990	2 x 3"
MISTRAL-F F80-3.2 C 8 D	322.3	61.5	65	79650	46	2 x 3	4.62	13.3	1292	1090	2x DN100
MISTRAL-F F80-4.2 A 8 D	319.6	61.0	42	117150	47	2 x 4	6.16	17.8	861	1175	2x DN100
MISTRAL-F F80-4.2 B 8 D	382.0	72.9	28	111250	47	2 x 4	6.16	17.8	1292	1310	2x DN100
MISTRAL-F F80-4.2 C 8 D	413.1	78.8	19	106200	47	2 x 4	6.16	17.8	1722	1445	2x DN100
MISTRAL-F F80-5.2 A 8 D	398.8	76.1	25	142400	48	2 x 5	7.70	22.2	1023	1465	2x DN100
MISTRAL-F F80-5.2 B 8 D	469.4	89.6	17	133800	48	2 x 5	7.70	22.2	1534	1630	2x DN100
MISTRAL-F F80-5.2 C 8 D	529.2	100.0	84	126400	48	2 x 5	7.70	22.2	2046	1800	2x DN100
MISTRAL-F F80-6.2 A 8 D	489.5	93.5	44	170900	49	2 x 6	9.24	26.6	1228	1750	2x DN100
MISTRAL-F F80-6.2 B 8 D	575.5	109.8	28	160550	49	2 x 6	9.24	26.6	1841	1950	2x DN100
MISTRAL-F F80-6.2 C 8 D	613.0	116.9	19	151700	49	2 x 6	9.24	26.6	2455	2150	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

Kaltra GmbH • Schwarzenbergplatz 6 • 1030 Wien • Austria
E-mail: info@kaltra.at • Web: www.kaltra.com • Tel.: +43 720 022 151

MISTRAL-F F90

Flatbed dry coolers

www.kaltra.com

Ø 900 mm
FAN DIAMETER

33,9 ÷ 1069,3 kW
CAPACITY @ DT 15K

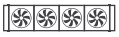
1 ÷ 12
NUMBER OF FANS

MISTRAL-F F90-1.1

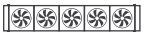
MISTRAL-F F90-2.1

MISTRAL-F F90-3.1

MISTRAL-F F90-4.1



MISTRAL-F F90-5.1



MISTRAL-F F90-2.2

MISTRAL-F F90-3.2

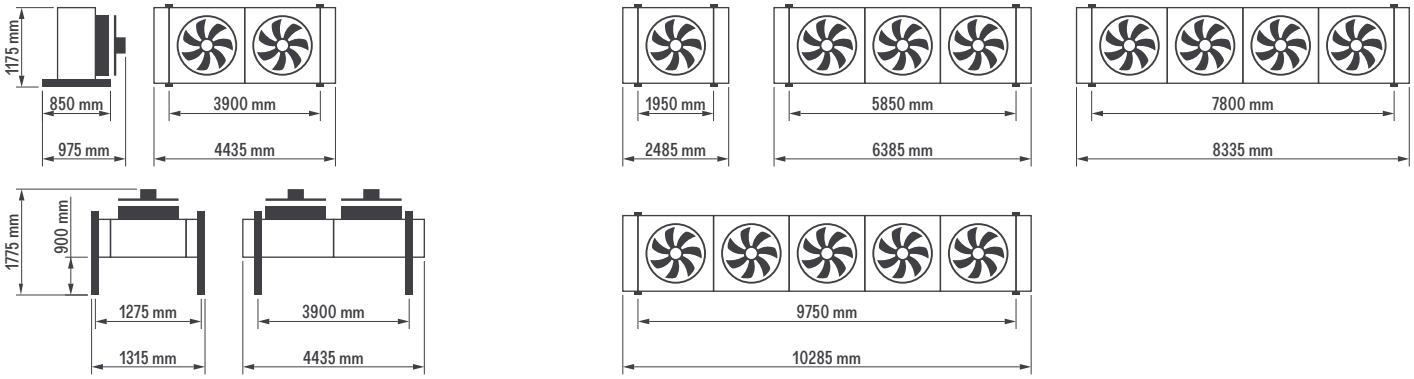
MISTRAL-F F90-4.2

MISTRAL-F F90-5.2

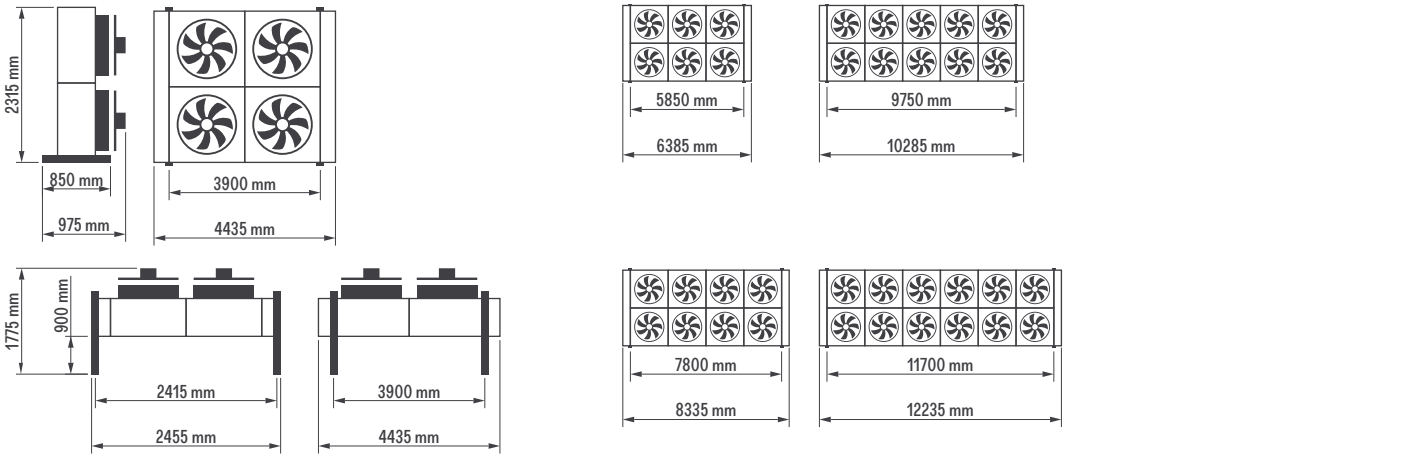
MISTRAL-F F90-6.2

DIMENSIONS

MISTRAL-F F90-1.1/2.1/3.1/4.1/5.1



MISTRAL-F F90-2.2/3.2/4.2/5.2/6.2



MODEL CODE

MISTRAL-F	-	F	90	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
-	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
90	Fan diameter in dm

2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

MISTRAL-F F90

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 4 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F90-1.1 B 4 D	78.0	14.9	77	30050	60	1	4.60	7.8	161	190	1" 1/2
MISTRAL-F F90-1.1 C 4 D	86.3	16.5	31	28350	60	1	4.60	7.8	215	205	2"
MISTRAL-F F90-2.1 B 4 D	155.8	29.7	69	60100	63	2	9.20	15.6	323	355	2"
MISTRAL-F F90-2.1 C 4 D	177.3	33.8	52	56750	63	2	9.20	15.6	431	390	DN80
MISTRAL-F F90-3.1 B 4 D	223.1	42.6	28	90200	65	3	13.80	23.4	484	525	DN80
MISTRAL-F F90-3.1 C 4 D	253.9	48.5	21	85100	65	3	13.80	23.4	646	575	DN100
MISTRAL-F F90-4.1 B 4 D	311.4	59.4	66	120250	66	4	18.40	31.2	646	690	DN100
MISTRAL-F F90-4.1 C 4 D	354.2	67.6	50	113500	66	4	18.40	31.2	861	760	DN100
MISTRAL-F F90-5.1 B 4 D	389.1	74.3	40	143450	66	5	23.00	39.0	767	860	DN100
MISTRAL-F F90-5.1 C 4 D	436.1	83.2	30	134250	66	5	23.00	39.0	1023	945	DN100
MISTRAL-F F90-2.2 B 4 D	311.7	59.5	69	120250	66	2 x 2	18.40	31.2	646	670	2x 2"
MISTRAL-F F90-2.2 C 4 D	354.5	67.7	52	113500	66	2 x 2	18.40	31.2	861	740	2x 3"
MISTRAL-F F90-3.2 B 4 D	446.1	85.2	28	180350	67	2 x 3	27.60	46.8	969	990	2x 3"
MISTRAL-F F90-3.2 C 4 D	507.9	96.9	21	170250	67	2 x 3	27.60	46.8	1292	1090	2x DN100
MISTRAL-F F90-4.2 B 4 D	622.7	118.8	66	240500	68	2 x 4	36.80	62.4	1292	1310	2x DN100
MISTRAL-F F90-4.2 C 4 D	708.4	135.2	50	227000	68	2 x 4	36.80	62.4	1722	1445	2x DN100
MISTRAL-F F90-5.2 B 4 D	778.2	148.5	40	286900	69	2 x 5	46.00	78.0	1534	1630	2x DN100
MISTRAL-F F90-5.2 C 4 D	872.1	166.4	30	268500	69	2 x 5	46.00	78.0	2046	1800	2x DN100
MISTRAL-F F90-6.2 B 4 D	954.9	182.2	69	344300	70	2 x 6	55.20	93.6	1841	1950	2x DN100
MISTRAL-F F90-6.2 C 4 D	1069.3	204.0	51	322200	70	2 x 6	55.20	93.6	2455	2150	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F90-1 B 6 D	68.1	13.0	60	23900	52	1	2.26	5.2	161	190	1" 1/2
MISTRAL-F F90-1 C 6 D	73.7	14.1	24	22350	52	1	2.26	5.2	215	205	2"
MISTRAL-F F90-2 B 6 D	136.1	26.0	54	47800	55	2	4.52	10.3	323	355	2"
MISTRAL-F F90-2 C 6 D	151.3	28.9	39	44700	55	2	4.52	10.3	431	390	DN80
MISTRAL-F F90-3 B 6 D	194.9	37.2	22	71650	57	3	6.78	15.5	484	525	DN80
MISTRAL-F F90-3 C 6 D	216.7	41.4	16	67050	57	3	6.78	15.5	646	575	DN100
MISTRAL-F F90-4 B 6 D	272.0	51.9	52	95550	58	4	9.04	20.6	646	690	DN100
MISTRAL-F F90-4 C 6 D	302.3	57.7	38	89400	58	4	9.04	20.6	861	760	DN100
MISTRAL-F F90-5 B 6 D	335.9	64.1	31	113200	58	5	11.30	25.8	767	860	DN100
MISTRAL-F F90-5 C 6 D	366.6	70.0	22	104600	58	5	11.30	25.8	1023	945	DN100
MISTRAL-F F90-2.2 B 6 D	272.3	52.0	54	95550	58	2 x 2	9.04	20.6	646	670	2x 2"
MISTRAL-F F90-2.2 C 6 D	302.6	57.7	39	89400	58	2 x 2	9.04	20.6	861	740	2x 3"
MISTRAL-F F90-3.2 B 6 D	389.7	74.4	22	143350	59	2 x 3	13.56	30.9	969	990	2x 3"
MISTRAL-F F90-3.2 C 6 D	433.4	82.7	16	134050	59	2 x 3	13.56	30.9	1292	1090	2x DN100
MISTRAL-F F90-4.2 B 6 D	544.0	103.8	52	191100	60	2 x 4	18.08	41.2	1292	1310	2x DN100
MISTRAL-F F90-4.2 C 6 D	604.6	115.4	38	178750	60	2 x 4	18.08	41.2	1722	1445	2x DN100
MISTRAL-F F90-5.2 B 6 D	671.8	128.2	31	226450	61	2 x 5	22.60	51.5	1534	1630	2x DN100
MISTRAL-F F90-5.2 C 6 D	733.2	140.0	22	209200	61	2 x 5	22.60	51.5	2046	1800	2x DN100
MISTRAL-F F90-6.2 B 6 D	824.2	157.3	54	271750	62	2 x 6	27.12	61.8	1841	1950	2x DN100
MISTRAL-F F90-6.2 C 6 D	898.6	171.5	38	251050	62	2 x 6	27.12	61.8	2455	2150	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F F90

Flatbed dry coolers

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Performance data

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F90-1.1 A 8 D	42.4	8.1	27	17150	41	1	0.83	2.3	108	170	1" 1/2
MISTRAL-F F90-1.1 B 8 D	52.7	10.1	38	16000	41	1	0.83	2.3	161	190	1" 1/2
MISTRAL-F F90-1.1 C 8 D	58.3	11.1	51	15050	41	1	0.83	2.3	215	205	2"
MISTRAL-F F90-2.1 A 8 D	87.8	16.8	51	34300	44	2	1.66	4.5	215	320	2"
MISTRAL-F F90-2.1 B 8 D	105.3	20.1	35	32000	44	2	1.66	4.5	323	355	2"
MISTRAL-F F90-2.1 C 8 D	113.8	21.7	24	30100	44	2	1.66	4.5	431	390	DN80
MISTRAL-F F90-3.1 A 8 D	125.5	24.0	21	51450	46	3	2.49	6.8	323	475	DN80
MISTRAL-F F90-3.1 B 8 D	150.6	28.8	14	48050	46	3	2.49	6.8	484	525	DN80
MISTRAL-F F90-3.1 C 8 D	177.4	33.8	77	45150	46	3	2.49	6.8	646	575	DN100
MISTRAL-F F90-4.1 A 8 D	175.4	33.5	49	68600	47	4	3.32	9.1	431	625	DN100
MISTRAL-F F90-4.1 B 8 D	210.4	40.2	33	64050	47	4	3.32	9.1	646	690	DN100
MISTRAL-F F90-4.1 C 8 D	227.4	43.4	23	60150	47	4	3.32	9.1	861	760	DN100
MISTRAL-F F90-5.1 A 8 D	218.5	41.7	30	82600	47	5	4.15	11.4	512	775	DN100
MISTRAL-F F90-5.1 B 8 D	257.3	49.1	19	76100	47	5	4.15	11.4	767	860	DN100
MISTRAL-F F90-5.1 C 8 D	273.2	52.1	13	70650	47	5	4.15	11.4	1023	945	DN100
MISTRAL-F F90-2.2 A 8 D	175.6	33.5	51	68600	47	2 x 2	3.32	9.1	431	605	2x 1 1/2"
MISTRAL-F F90-2.2 B 8 D	210.6	40.2	35	64050	47	2 x 2	3.32	9.1	646	670	2x 2"
MISTRAL-F F90-2.2 C 8 D	227.6	43.4	24	60150	47	2 x 2	3.32	9.1	861	740	2x 3"
MISTRAL-F F90-3.2 A 8 D	251.1	47.9	21	102900	48	2 x 3	4.98	13.6	646	890	2x 3"
MISTRAL-F F90-3.2 B 8 D	301.3	57.5	14	96050	48	2 x 3	4.98	13.6	969	990	2x 3"
MISTRAL-F F90-3.2 C 8 D	325.5	62.1	10	90250	48	2 x 3	4.98	13.6	1292	1090	2x DN100
MISTRAL-F F90-4.2 A 8 D	350.8	67.0	49	137200	49	2 x 4	6.64	18.2	861	1175	2x DN100
MISTRAL-F F90-4.2 B 8 D	420.9	80.3	33	128100	49	2 x 4	6.64	18.2	1292	1310	2x DN100
MISTRAL-F F90-4.2 C 8 D	454.7	86.8	23	120350	49	2 x 4	6.64	18.2	1722	1445	2x DN100
MISTRAL-F F90-5.2 A 8 D	437.0	83.4	30	165200	50	2 x 5	8.30	22.7	1023	1465	2x DN100
MISTRAL-F F90-5.2 B 8 D	514.5	98.2	19	152200	50	2 x 5	8.30	22.7	1534	1630	2x DN100
MISTRAL-F F90-5.2 C 8 D	546.3	104.2	13	141300	50	2 x 5	8.30	22.7	2046	1800	2x DN100
MISTRAL-F F90-6.2 A 8 D	536.4	102.4	51	198250	51	2 x 6	9.96	27.2	1228	1750	2x DN100
MISTRAL-F F90-6.2 B 8 D	631.0	120.5	34	182600	51	2 x 6	9.96	27.2	1841	1950	2x DN100
MISTRAL-F F90-6.2 C 8 D	669.3	127.7	22	169550	51	2 x 6	9.96	27.2	2455	2150	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 12 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F90-1.1 A 12 D	33.9	6.5	56	10900	30	1	0.28	0.8	108	170	1" 1/2
MISTRAL-F F90-1.1 B 12 D	38.5	7.4	35	10050	30	1	0.28	0.8	161	190	1" 1/2
MISTRAL-F F90-2.1 A 12 D	66.4	12.7	31	21750	33	2	0.56	1.7	215	320	2"
MISTRAL-F F90-2.1 B 12 D	77.3	14.8	37	20100	33	2	0.56	1.7	323	355	2"
MISTRAL-F F90-3.1 A 12 D	94.8	18.1	13	32650	35	3	0.84	2.5	323	475	DN80
MISTRAL-F F90-3.1 B 12 D	117.8	22.5	62	30200	35	3	0.84	2.5	484	525	DN80
MISTRAL-F F90-4.1 A 12 D	132.7	25.3	30	43500	36	4	1.12	3.3	431	625	DN100
MISTRAL-F F90-4.1 B 12 D	150.8	28.8	18	40250	36	4	1.12	3.3	646	690	DN100
MISTRAL-F F90-5.1 A 12 D	162.7	31.1	18	52050	36	5	1.40	4.2	512	775	DN100
MISTRAL-F F90-5.1 B 12 D	192.3	36.7	80	47400	36	5	1.40	4.2	767	860	DN100
MISTRAL-F F90-2.2 A 12 D	132.8	25.4	31	43500	36	2 x 2	1.12	3.3	431	605	2x 1 1/2"
MISTRAL-F F90-2.2 B 12 D	154.6	29.5	37	40250	36	2 x 2	1.12	3.3	646	670	2x 2"
MISTRAL-F F90-3.2 A 12 D	189.6	36.2	13	65250	37	2 x 3	1.68	5.0	646	890	2x 3"
MISTRAL-F F90-3.2 B 12 D	235.6	44.9	62	60350	37	2 x 3	1.68	5.0	969	990	2x 3"
MISTRAL-F F90-4.2 A 12 D	265.4	50.7	30	87050	38	2 x 4	2.24	6.6	861	1175	2x DN100
MISTRAL-F F90-4.2 B 12 D	301.6	57.5	18	80450	38	2 x 4	2.24	6.6	1292	1310	2x DN100
MISTRAL-F F90-5.2 A 12 D	325.5	62.1	18	104150	39	2 x 5	2.80	8.3	1023	1465	2x DN100
MISTRAL-F F90-5.2 B 12 D	384.7	73.4	80	94850	39	2 x 5	2.80	8.3	1534	1630	2x DN100
MISTRAL-F F90-6.2 A 12 D	399.4	76.2	31	124950	40	2 x 6	3.36	10.0	1228	1750	2x DN100
MISTRAL-F F90-6.2 B 12 D	444.2	84.7	18	113800	40	2 x 6	3.36	10.0	1841	1950	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F LF90

Flatbed dry coolers

www.kaltra.com

Ø 900 mm
FAN DIAMETER

36,5 ÷ 990,6 kW
CAPACITY @ DT 15K

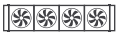
1 ÷ 10
NUMBER OF FANS

MISTRAL-F LF90-1.1

MISTRAL-F LF90-2.1

MISTRAL-F LF90-3.1

MISTRAL-F LF90-4.1



MISTRAL-F LF90-5.1

MISTRAL-F LF90-2.2

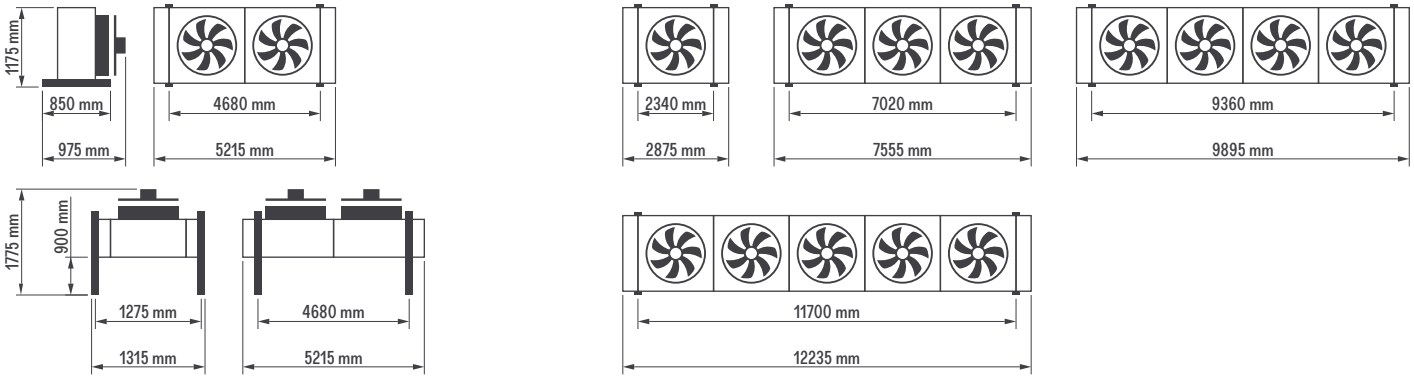
MISTRAL-F LF90-3.2

MISTRAL-F LF90-4.2

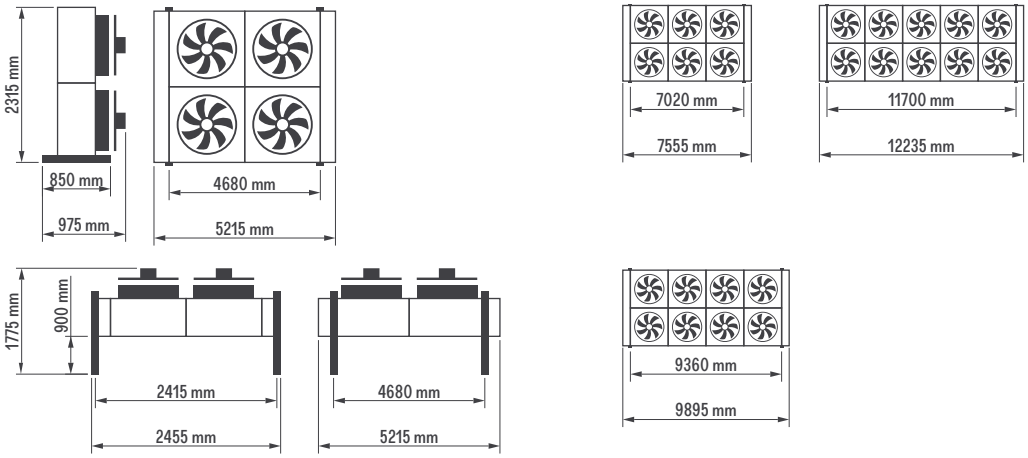
MISTRAL-F LF90-5.2

DIMENSIONS

MISTRAL-F LF90-1.1/2.1/3.1/4.1/5.1



MISTRAL-F LF90-2.2/3.2/4.2/5.2



MODEL CODE

MISTRAL-F	L	F	90	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
L	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
90	Fan diameter in dm
2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

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Performance data

3 PH 4 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F LF90-1.1 B 4 D	84.1	16.0	34	31600	60	1	4.60	7.8	194	210	2"
MISTRAL-F LF90-1.1 C 4 D	95.2	18.2	25	30200	60	1	4.60	7.8	258	230	2"
MISTRAL-F LF90-2.1 B 4 D	157.1	30.0	12	63200	63	2	9.20	15.6	388	400	2" 1/2
MISTRAL-F LF90-2.1 C 4 D	200.7	38.3	77	60350	63	2	9.20	15.6	517	440	DN80
MISTRAL-F LF90-3.1 B 4 D	255.7	48.8	42	94850	65	3	13.80	23.4	581	595	DN100
MISTRAL-F LF90-3.1 C 4 D	290.4	55.4	32	90550	65	3	13.80	23.4	775	655	DN100
MISTRAL-F LF90-4.1 B 4 D	344.5	65.7	31	121750	66	4	18.40	31.2	737	785	DN100
MISTRAL-F LF90-4.1 C 4 D	385.7	73.6	23	115250	66	4	18.40	31.2	982	865	DN100
MISTRAL-F LF90-5.1 B 4 D	442.8	84.5	61	152200	66	5	23.00	39.0	921	975	DN100
MISTRAL-F LF90-5.1 C 4 D	495.3	94.6	45	144100	66	5	23.00	39.0	1228	1075	DN100
MISTRAL-F LF90-2.2 B 4 D	314.1	60.0	12	126450	66	2 x 2	18.40	31.2	775	760	2" 1/2
MISTRAL-F LF90-2.2 C 4 D	401.4	76.6	77	120700	66	2 x 2	18.40	31.2	1033	840	DN80
MISTRAL-F LF90-3.2 B 4 D	511.5	97.6	42	189650	67	2 x 3	27.60	46.8	1162	1125	DN100
MISTRAL-F LF90-3.2 C 4 D	580.8	110.9	32	181050	67	2 x 3	27.60	46.8	1550	1245	DN100
MISTRAL-F LF90-4.2 B 4 D	688.9	131.5	31	243550	68	2 x 4	36.80	62.4	1473	1485	DN100
MISTRAL-F LF90-4.2 C 4 D	771.4	147.2	23	230550	68	2 x 4	36.80	62.4	1964	1645	DN100
MISTRAL-F LF90-5.2 B 4 D	885.5	169.0	61	304400	69	2 x 5	46.00	78.0	1841	1850	DN100
MISTRAL-F LF90-5.2 C 4 D	990.6	189.1	45	288150	69	2 x 5	46.00	78.0	2455	2050	DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F LF90-1.1 B 6 D	73.4	14.0	27	25300	52	1	2.26	5.2	194	210	2"
MISTRAL-F LF90-1.1 C 6 D	84.9	16.2	46	24000	52	1	2.26	5.2	258	230	2"
MISTRAL-F LF90-2.1 B 6 D	154.4	29.5	81	50600	55	2	4.52	10.3	388	400	2" 1/2
MISTRAL-F LF90-2.1 C 6 D	171.5	32.7	59	47950	55	2	4.52	10.3	517	440	DN80
MISTRAL-F LF90-3.1 B 6 D	223.3	42.6	33	75900	57	3	6.78	15.5	581	595	DN100
MISTRAL-F LF90-3.1 C 6 D	248.2	47.4	24	71950	57	3	6.78	15.5	775	655	DN100
MISTRAL-F LF90-4.1 B 6 D	297.7	56.8	24	96900	58	4	9.04	20.6	737	785	DN100
MISTRAL-F LF90-4.1 C 6 D	325.9	62.2	17	91000	58	4	9.04	20.6	982	865	DN100
MISTRAL-F LF90-5.1 B 6 D	382.5	73.0	47	121150	58	5	11.30	25.8	921	975	DN100
MISTRAL-F LF90-5.1 C 6 D	418.3	79.8	33	113750	58	5	11.30	25.8	1228	1075	DN100
MISTRAL-F LF90-2.2 B 6 D	308.9	59.0	81	101200	58	2 x 2	9.04	20.6	775	760	2" 1/2
MISTRAL-F LF90-2.2 C 6 D	343.0	65.5	59	95950	58	2 x 2	9.04	20.6	1033	840	DN80
MISTRAL-F LF90-3.2 B 6 D	446.6	85.2	33	151800	59	2 x 3	13.56	30.9	1162	1125	DN100
MISTRAL-F LF90-3.2 C 6 D	496.4	94.7	24	143900	59	2 x 3	13.56	30.9	1550	1245	DN100
MISTRAL-F LF90-4.2 B 6 D	595.4	113.7	24	193850	60	2 x 4	18.08	41.2	1473	1485	DN100
MISTRAL-F LF90-4.2 C 6 D	651.9	124.4	17	182050	60	2 x 4	18.08	41.2	1964	1645	DN100
MISTRAL-F LF90-5.2 B 6 D	765.0	146.0	47	242300	61	2 x 5	22.60	51.5	1841	1850	DN100
MISTRAL-F LF90-5.2 C 6 D	836.6	159.7	33	227550	61	2 x 5	22.60	51.5	2455	2050	DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F LF90

Flatbed dry coolers

www.kaltra.com

Performance data

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F LF90-1.1 A 8 D	46.9	9.0	24	17850	41	1	0.83	2.3	129	190	2"
MISTRAL-F LF90-1.1 B 8 D	59.1	11.3	56	16900	41	1	0.83	2.3	194	210	2"
MISTRAL-F LF90-1.1 C 8 D	63.1	12.0	27	16050	41	1	0.83	2.3	258	230	2"
MISTRAL-F LF90-2.1 A 8 D	99.0	18.9	76	35700	44	2	1.66	4.5	258	360	2" 1/2
MISTRAL-F LF90-2.1 B 8 D	118.2	22.6	51	33800	44	2	1.66	4.5	388	400	2" 1/2
MISTRAL-F LF90-2.1 C 8 D	127.4	24.3	35	32100	44	2	1.66	4.5	517	440	DN80
MISTRAL-F LF90-3.1 A 8 D	143.0	27.3	31	53550	46	3	2.49	6.8	388	535	DN100
MISTRAL-F LF90-3.1 B 8 D	170.9	32.6	21	50700	46	3	2.49	6.8	581	595	DN100
MISTRAL-F LF90-3.1 C 8 D	184.4	35.2	14	48200	46	3	2.49	6.8	775	655	DN100
MISTRAL-F LF90-4.1 A 8 D	192.0	36.6	23	69300	47	4	3.32	9.1	491	705	DN100
MISTRAL-F LF90-4.1 B 8 D	225.9	43.1	15	64950	47	4	3.32	9.1	737	785	DN100
MISTRAL-F LF90-4.1 C 8 D	255.5	48.7	77	61150	47	4	3.32	9.1	982	865	DN100
MISTRAL-F LF90-5.1 A 8 D	246.9	47.1	44	86650	47	5	4.15	11.4	614	875	DN100
MISTRAL-F LF90-5.1 B 8 D	290.1	55.4	29	81200	47	5	4.15	11.4	921	975	DN100
MISTRAL-F LF90-5.1 C 8 D	308.4	58.8	19	76450	47	5	4.15	11.4	1228	1075	DN100
MISTRAL-F LF90-2.2 A 8 D	198.0	37.8	76	71400	47	2 x 2	3.32	9.1	517	680	2" 1/2
MISTRAL-F LF90-2.2 B 8 D	236.4	45.1	51	67600	47	2 x 2	3.32	9.1	775	760	2" 1/2
MISTRAL-F LF90-2.2 C 8 D	254.8	48.6	35	64250	47	2 x 2	3.32	9.1	1033	840	DN80
MISTRAL-F LF90-3.2 A 8 D	286.1	54.6	31	107150	48	2 x 3	4.98	13.6	775	1000	DN100
MISTRAL-F LF90-3.2 B 8 D	341.8	65.2	21	101450	48	2 x 3	4.98	13.6	1162	1125	DN100
MISTRAL-F LF90-3.2 C 8 D	368.8	70.3	14	96400	48	2 x 3	4.98	13.6	1550	1245	DN100
MISTRAL-F LF90-4.2 A 8 D	384.0	73.3	23	138600	49	2 x 4	6.64	18.2	982	1325	DN100
MISTRAL-F LF90-4.2 B 8 D	451.7	86.2	15	129900	49	2 x 4	6.64	18.2	1473	1485	DN100
MISTRAL-F LF90-4.2 C 8 D	510.9	97.5	77	122300	49	2 x 4	6.64	18.2	1964	1645	DN100
MISTRAL-F LF90-5.2 A 8 D	493.8	94.3	44	173300	50	2 x 5	8.30	22.7	1228	1650	DN100
MISTRAL-F LF90-5.2 B 8 D	580.2	110.7	29	162400	50	2 x 5	8.30	22.7	1841	1850	DN100
MISTRAL-F LF90-5.2 C 8 D	616.8	117.6	19	152900	50	2 x 5	8.30	22.7	2455	2050	DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 12 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F LF90-1.1 A 12 D	36.5	7.0	31	11350	30	1	0.28	0.8	129	190	2"
MISTRAL-F LF90-1.1 B 12 D	42.9	8.2	61	10700	30	1	0.28	0.8	193	210	2"
MISTRAL-F LF90-1.1 C 12 D	44.7	8.5	46	10100	30	1	0.28	0.8	258	230	2"
MISTRAL-F LF90-2.1 A 12 D	74.2	14.2	46	22700	33	2	0.56	1.7	258	360	2" 1/2
MISTRAL-F LF90-2.1 B 12 D	84.2	16.1	28	21400	33	2	0.56	1.7	388	400	2" 1/2
MISTRAL-F LF90-2.1 C 12 D	89.8	17.1	53	20250	33	2	0.56	1.7	516	440	DN80
MISTRAL-F LF90-3.1 A 12 D	107.2	20.5	19	34050	35	3	0.84	2.5	388	535	DN100
MISTRAL-F LF90-3.1 B 12 D	130.3	24.9	89	32050	35	3	0.84	2.5	581	595	DN100
MISTRAL-F LF90-3.1 C 12 D	134.9	25.7	57	30350	35	3	0.84	2.5	775	655	DN100
MISTRAL-F LF90-4.1 A 12 D	142.2	27.1	13	43950	36	4	1.12	3.3	491	705	DN100
MISTRAL-F LF90-4.1 B 12 D	169.2	32.3	62	40900	36	4	1.12	3.3	737	785	DN100
MISTRAL-F LF90-4.1 C 12 D	172.1	32.8	38	38150	36	4	1.12	3.3	982	865	DN100
MISTRAL-F LF90-5.1 A 12 D	182.9	34.9	26	54950	36	5	1.40	4.2	614	875	DN100
MISTRAL-F LF90-5.1 B 12 D	204.1	38.9	16	51100	36	5	1.40	4.2	921	975	DN100
MISTRAL-F LF90-5.1 C 12 D	217.1	41.4	72	47700	36	5	1.40	4.2	1228	1075	DN100
MISTRAL-F LF90-2.2 A 12 D	148.4	28.3	46	45400	36	2 x 2	1.12	3.3	517	680	2" 1/2
MISTRAL-F LF90-2.2 B 12 D	168.4	32.1	28	42750	36	2 x 2	1.12	3.3	775	760	2" 1/2
MISTRAL-F LF90-2.2 C 12 D	179.6	34.3	54	40450	36	2 x 2	1.12	3.3	1033	840	DN80
MISTRAL-F LF90-3.2 A 12 D	214.3	40.9	19	68050	37	2 x 3	1.68	5.0	775	1000	DN100
MISTRAL-F LF90-3.2 B 12 D	260.6	49.7	89	64100	37	2 x 3	1.68	5.0	1162	1125	DN100
MISTRAL-F LF90-3.2 C 12 D	269.8	51.5	57	60700	37	2 x 3	1.68	5.0	155	1245	DN100
MISTRAL-F LF90-4.2 A 12 D	284.4	54.3	13	87900	38	2 x 4	2.24	6.6	982	1325	DN100
MISTRAL-F LF90-4.2 B 12 D	338.5	64.6	62	81800	38	2 x 4	2.24	6.6	1473	1485	DN100
MISTRAL-F LF90-4.2 C 12 D	344.2	65.7	38	76300	38	2 x 4	2.24	6.6	1964	1645	DN100
MISTRAL-F LF90-5.2 A 12 D	365.7	69.8	26	109900	39	2 x 5	2.80	8.3	1228	1650	DN100
MISTRAL-F LF90-5.2 B 12 D	408.1	77.8	16	102250	39	2 x 5	2.80	8.3	1841	1850	DN100
MISTRAL-F LF90-5.2 C 12 D	434.2	82.8	72	95400	39	2 x 5	2.80	8.3	2455	2050	DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F F100

Flatbed dry coolers

www.kaltra.com

Ø 1000 mm
FAN DIAMETER

44,1 ÷ 951,3 kW
CAPACITY @ DT 15K

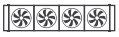
1 ÷ 12
NUMBER OF FANS

MISTRAL-F F100-1.1

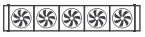
MISTRAL-F F100-2.1

MISTRAL-F F100-3.1

MISTRAL-F F100-4.1



MISTRAL-F F100-5.1



MISTRAL-F F100-2.2

MISTRAL-F F100-3.2

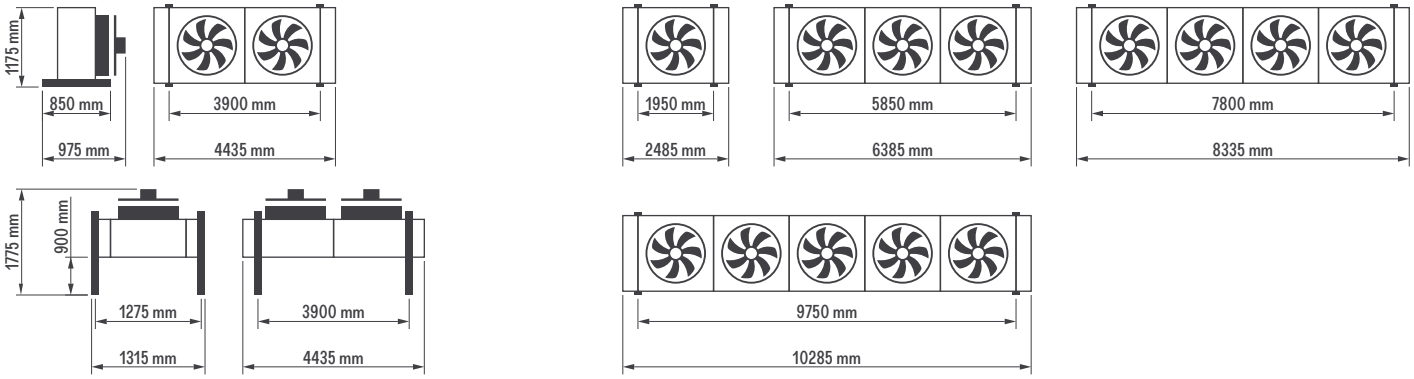
MISTRAL-F F100-4.2

MISTRAL-F F100-5.2

MISTRAL-F F100-6.2

DIMENSIONS

MISTRAL-F F100-1.1/2.1/3.1/4.1/5.1



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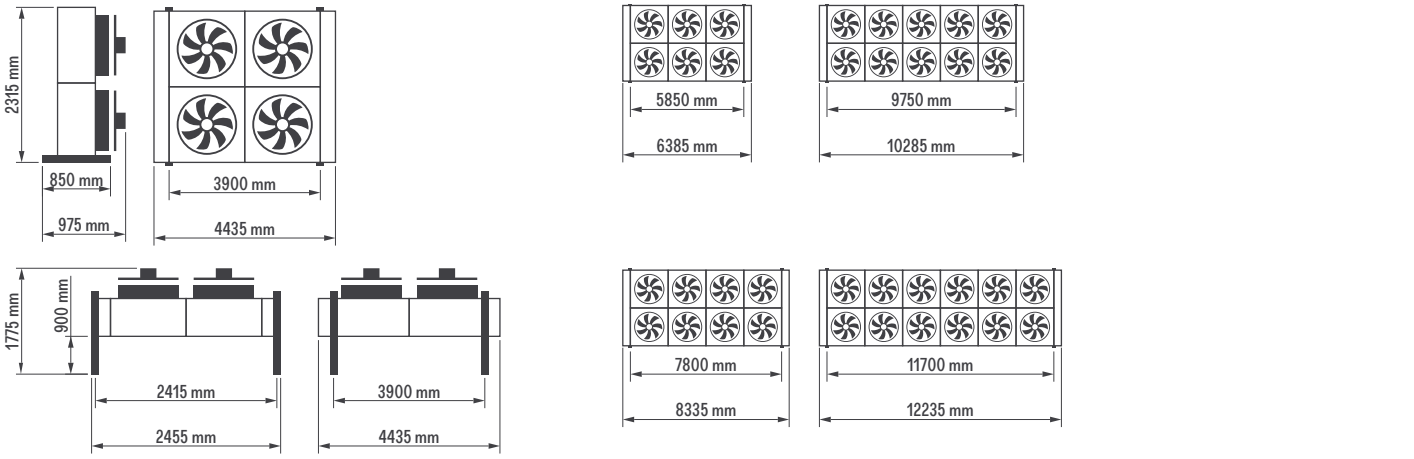

MODEL CODE

MISTRAL-F	-	F	100	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
-	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
100	Fan diameter in dm

2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

MISTRAL-F F100

Flatbed dry coolers

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Performance data

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F100-1.1 B 6 D	71.8	13.7	66	26050	53	1	2.48	5.6	161	190	1" 1/2
MISTRAL-F F100-1.1 C 6 D	78.0	14.9	26	24300	53	1	2.48	5.6	215	205	2"
MISTRAL-F F100-2.1 B 6 D	143.4	27.4	60	52100	56	2	4.96	11.3	323	355	2"
MISTRAL-F F100-2.1 C 6 D	160.0	30.5	44	48550	56	2	4.96	11.3	431	390	DN80
MISTRAL-F F100-3.1 B 6 D	205.3	39.2	24	78200	58	3	7.44	16.9	484	525	DN80
MISTRAL-F F100-3.1 C 6 D	229.2	43.8	17	72850	58	3	7.44	16.9	646	575	DN100
MISTRAL-F F100-4.1 B 6 D	286.6	54.7	57	104250	59	4	9.92	22.5	646	690	DN100
MISTRAL-F F100-4.1 C 6 D	319.8	61.0	42	97100	59	4	9.92	22.5	861	760	DN100
MISTRAL-F F100-5.1 B 6 D	354.0	67.6	34	123000	59	5	12.40	28.2	767	860	DN100
MISTRAL-F F100-5.1 C 6 D	388.0	74.0	24	113350	59	5	12.40	28.2	1023	945	DN100
MISTRAL-F F100-2.2 B 6 D	286.8	54.7	60	104250	59	2 x 2	9.92	22.5	646	670	2x 2"
MISTRAL-F F100-2.2 C 6 D	320.1	61.1	44	97100	59	2 x 2	9.92	22.5	861	740	2x 3"
MISTRAL-F F100-3.2 B 6 D	410.6	78.4	24	156350	60	2 x 3	14.88	33.8	969	990	2x 3"
MISTRAL-F F100-3.2 C 6 D	458.5	87.5	17	145650	60	2 x 3	14.88	33.8	1292	1090	2x DN100
MISTRAL-F F100-4.2 B 6 D	573.2	109.4	57	208500	61	2 x 4	19.84	45.0	1292	1310	2x DN100
MISTRAL-F F100-4.2 C 6 D	639.6	122.1	42	194200	61	2 x 4	19.84	45.0	1722	1445	2x DN100
MISTRAL-F F100-5.2 B 6 D	708.0	135.1	34	246000	62	2 x 5	24.80	56.3	1534	1630	2x DN100
MISTRAL-F F100-5.2 C 6 D	776.0	148.1	24	226650	62	2 x 5	24.80	56.3	2046	1800	2x DN100
MISTRAL-F F100-6.2 B 6 D	868.7	165.8	59	295200	63	2 x 6	29.76	67.6	1841	1950	2x DN100
MISTRAL-F F100-6.2 C 6 D	951.3	181.6	42	272000	63	2 x 6	29.76	67.6	2455	2150	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F F100-1.1 A 8 D	44.1	8.4	29	18350	46	1	0.96	2.3	108	170	1" 1/2
MISTRAL-F F100-1.1 B 8 D	54.9	10.5	41	17000	46	1	0.96	2.3	161	190	1" 1/2
MISTRAL-F F100-1.1 C 8 D	60.9	11.6	55	15900	46	1	0.96	2.3	215	205	2"
MISTRAL-F F100-2.1 A 8 D	91.2	17.4	55	36700	49	2	1.92	4.6	215	320	2"
MISTRAL-F F100-2.1 B 8 D	109.7	20.9	37	34000	49	2	1.92	4.6	323	355	2"
MISTRAL-F F100-2.1 C 8 D	118.7	22.6	26	31850	49	2	1.92	4.6	431	390	DN80
MISTRAL-F F100-3.1 A 8 D	130.5	24.9	22	55050	51	3	2.88	6.8	323	475	DN80
MISTRAL-F F100-3.1 B 8 D	156.9	29.9	15	51000	51	3	2.88	6.8	484	525	DN80
MISTRAL-F F100-3.1 C 8 D	185.1	35.3	83	47750	51	3	2.88	6.8	646	575	DN100
MISTRAL-F F100-4.1 A 8 D	182.3	34.8	53	73400	52	4	3.84	9.1	431	625	DN100
MISTRAL-F F100-4.1 B 8 D	219.1	41.8	36	68050	52	4	3.84	9.1	646	690	DN100
MISTRAL-F F100-4.1 C 8 D	237.2	45.3	25	63650	52	4	3.84	9.1	861	760	DN100
MISTRAL-F F100-5.1 A 8 D	227.0	43.3	32	88050	52	5	4.80	11.4	512	775	DN100
MISTRAL-F F100-5.1 B 8 D	267.7	51.1	21	80550	52	5	4.80	11.4	767	860	DN100
MISTRAL-F F100-5.1 C 8 D	284.7	54.3	14	74500	52	5	4.80	11.4	1023	945	DN100
MISTRAL-F F100-2.2 A 8 D	182.5	34.8	55	73400	52	2 x 2	3.84	9.1	431	605	2x 1 1/2"
MISTRAL-F F100-2.2 B 8 D	219.3	41.9	37	68050	52	2 x 2	3.84	9.1	646	670	2x 2"
MISTRAL-F F100-2.2 C 8 D	237.4	45.3	26	63650	52	2 x 2	3.84	9.1	861	740	2x 3"
MISTRAL-F F100-3.2 A 8 D	260.9	49.8	22	110050	53	2 x 3	5.76	13.7	646	890	2x 3"
MISTRAL-F F100-3.2 B 8 D	313.8	59.9	15	102050	53	2 x 3	5.76	13.7	969	990	2x 3"
MISTRAL-F F100-3.2 C 8 D	370.3	70.6	83	95500	53	2 x 3	5.76	13.7	1292	1090	2x DN100
MISTRAL-F F100-4.2 A 8 D	364.6	69.6	53	146750	54	2 x 4	7.68	18.2	861	1175	2x DN100
MISTRAL-F F100-4.2 B 8 D	438.3	83.7	36	136050	54	2 x 4	7.68	18.2	1292	1310	2x DN100
MISTRAL-F F100-4.2 C 8 D	474.4	90.5	25	127350	54	2 x 4	7.68	18.2	1722	1445	2x DN100
MISTRAL-F F100-5.2 A 8 D	454.0	86.7	32	176050	55	2 x 5	9.60	22.8	1023	1465	2x DN100
MISTRAL-F F100-5.2 B 8 D	535.4	102.2	21	161100	55	2 x 5	9.60	22.8	1534	1630	2x DN100
MISTRAL-F F100-5.2 C 8 D	569.3	108.6	14	149000	55	2 x 5	9.60	22.8	2046	1800	2x DN100
MISTRAL-F F100-6.2 A 8 D	557.3	106.3	55	211250	56	2 x 6	11.52	27.4	1228	1750	2x DN100
MISTRAL-F F100-6.2 B 8 D	656.6	125.3	36	193350	56	2 x 6	11.52	27.4	1841	1950	2x DN100
MISTRAL-F F100-6.2 C 8 D	697.5	133.0	24	178800	56	2 x 6	11.52	27.4	2455	2150	2x DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

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MISTRAL-F LF100

Flatbed dry coolers

www.kaltra.com

Ø 1000 mm
FAN DIAMETER

48,9 ÷ 889,1 kW
CAPACITY @ DT15K

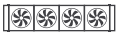
1 ÷ 10
NUMBER OF FANS

MISTRAL-F LF100-1.1

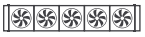
MISTRAL-F LF100-2.1

MISTRAL-F LF100-3.1

MISTRAL-F LF100-4.1



MISTRAL-F LF100-5.1

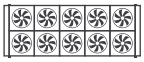


MISTRAL-F LF100-2.2

MISTRAL-F LF100-3.2

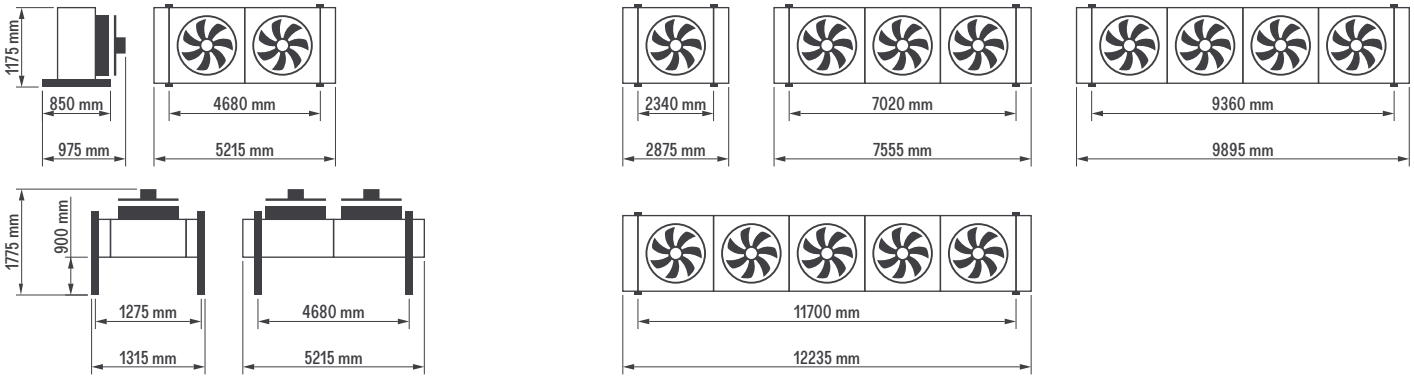
MISTRAL-F LF100-4.2

MISTRAL-F LF100-5.2

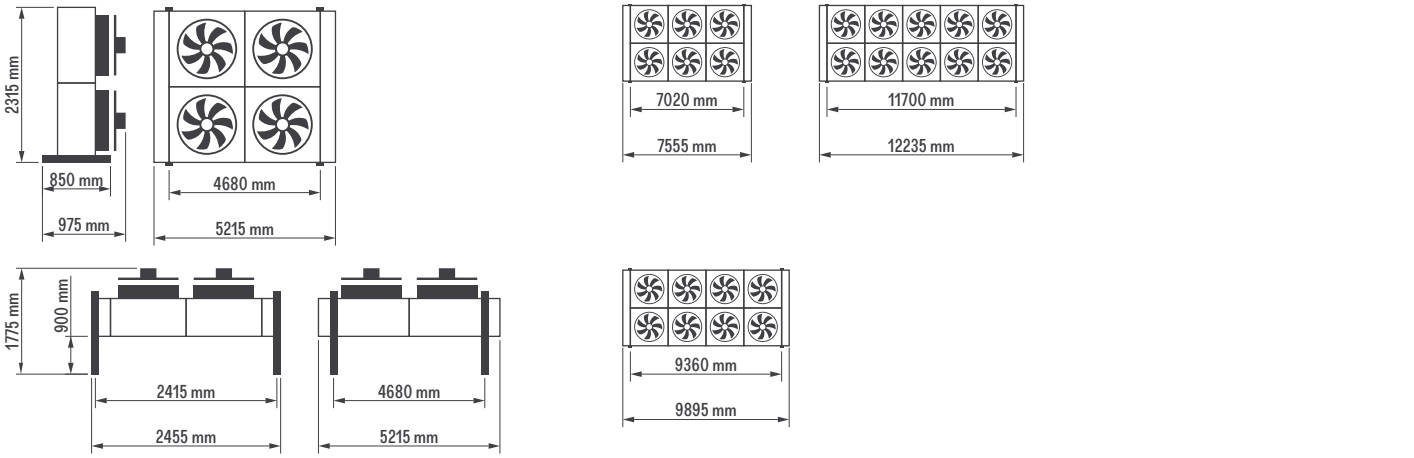


DIMENSIONS

MISTRAL-F LF100-1.1/2.1/3.1/4.1/5.1



MISTRAL-F LF100-2.2/3.2/4.2/5.2



MODEL CODE

MISTRAL-F	L	F	100	2.1	A	4D	AC

MISTRAL-F	Flatbed dry cooler
L	S = short coil height [not present] = Standard coil height L = Increased coil height
F	F = Flatbed dry cooler
100	Fan diameter in dm
2.1	Number of fans per row * number of fan rows
A	A/B/C = Heat exchanger type
4D	Motor poles and motor type (D/Y/S)
AC	AC = AC-driven fans EC = EC-driven fans

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MISTRAL-F LF100

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Performance data

3 PH 6 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F LF100-1.1 B 6 D	77.6	14.8	29	27650	53	1	2.48	5.6	194	210	2"
MISTRAL-F LF100-1.1 C 6 D	90.2	17.2	52	26150	53	1	2.48	5.6	258	230	2"
MISTRAL-F LF100-2.1 B 6 D	163.3	31.2	89	55350	56	2	4.96	11.3	388	400	2" 1/2
MISTRAL-F LF100-2.1 C 6 D	182.2	34.8	65	52350	56	2	4.96	11.3	517	440	DN80
MISTRAL-F LF100-3.1 B 6 D	236.1	45.1	37	83000	58	3	7.44	16.9	581	595	DN100
MISTRAL-F LF100-3.1 C 6 D	263.7	50.3	27	78500	58	3	7.44	16.9	775	655	DN100
MISTRAL-F LF100-4.1 B 6 D	315.1	60.1	27	105800	59	4	9.92	22.5	737	785	DN100
MISTRAL-F LF100-4.1 C 6 D	346.4	66.1	19	98950	59	4	9.92	22.5	982	865	DN100
MISTRAL-F LF100-5.1 B 6 D	405.0	77.3	52	132250	59	5	12.40	28.2	921	975	DN100
MISTRAL-F LF100-5.1 C 6 D	444.6	84.8	37	123700	59	5	12.40	28.2	1228	1075	DN100
MISTRAL-F LF100-2.2 B 6 D	326.6	62.3	89	110700	59	2 x 3	9.92	22.5	775	760	2" 1/2
MISTRAL-F LF100-2.2 C 6 D	364.5	69.6	65	104650	59	2 x 3	9.92	22.5	1033	840	DN80
MISTRAL-F LF100-3.2 B 6 D	472.1	90.1	37	166050	60	2 x 2	14.88	33.8	1162	1125	DN100
MISTRAL-F LF100-3.2 C 6 D	527.5	100.7	27	157000	60	2 x 2	14.88	33.8	1550	1245	DN100
MISTRAL-F LF100-4.2 B 6 D	630.3	120.3	27	211600	61	2 x 4	19.84	45.0	1473	1485	DN100
MISTRAL-F LF100-4.2 C 6 D	692.7	132.2	19	197900	61	2 x 4	19.84	45.0	1964	1645	DN100
MISTRAL-F LF100-5.2 B 6 D	810.0	154.6	52	264450	62	2 x 5	24.80	56.3	1841	1850	DN100
MISTRAL-F LF100-5.2 C 6 D	889.1	169.7	37	247400	62	2 x 5	24.80	56.3	2455	2050	DN100

T_{air} = 25°C • $T_{fluid\ in}$ = 40°C • $T_{fluid\ out}$ = 35°C • Ethylene glycol 35%

3 PH 8 POLES	CAPACITY	FLUID FLOW	FLUID PRESSURE DROP	AIRFLOW	SOUND PRESSURE	NO. FANS	POWER INPUT	CURRENT	HEAT TRANSFER SURFACE	WEIGHT	IN/OUT CONNECTIONS
	kW	m^3/h	kPa	m^3/h	dB(A)		kW	A	m^2	kg	
MISTRAL-F LF100-1.1 A 8 D	48.9	9.3	26	19150	46	1	0.96	2.3	129	190	2"
MISTRAL-F LF100-1.1 B 8 D	61.9	11.8	60	18050	46	1	0.96	2.3	194	210	2"
MISTRAL-F LF100-1.1 C 8 D	66.1	12.6	30	17100	46	1	0.96	2.3	258	230	2"
MISTRAL-F LF100-2.1 A 8 D	103.3	19.7	82	38350	49	2	1.92	4.6	258	360	2" 1/2
MISTRAL-F LF100-2.1 B 8 D	123.7	23.6	55	36100	49	2	1.92	4.6	388	400	2" 1/2
MISTRAL-F LF100-2.1 C 8 D	133.6	25.5	38	34150	49	2	1.92	4.6	517	440	DN80
MISTRAL-F LF100-3.1 A 8 D	149.2	28.5	33	57500	51	3	2.88	6.8	388	535	DN100
MISTRAL-F LF100-3.1 B 8 D	178.9	34.2	23	54200	51	3	2.88	6.8	581	595	DN100
MISTRAL-F LF100-3.1 C 8 D	193.3	36.9	16	51250	51	3	2.88	6.8	775	655	DN100
MISTRAL-F LF100-4.1 A 8 D	200.3	38.2	25	74200	52	4	3.84	9.1	491	705	DN100
MISTRAL-F LF100-4.1 B 8 D	236.1	45.1	16	69100	52	4	3.84	9.1	737	785	DN100
MISTRAL-F LF100-4.1 C 8 D	267.5	51.0	83	64800	52	4	3.84	9.1	982	865	DN100
MISTRAL-F LF100-5.1 A 8 D	257.6	49.2	48	92750	52	5	4.80	11.4	614	875	DN100
MISTRAL-F LF100-5.1 B 8 D	303.3	57.9	31	86350	52	5	4.80	11.4	921	975	DN100
MISTRAL-F LF100-5.1 C 8 D	322.9	61.6	21	81000	52	5	4.80	11.4	1228	1075	DN100
MISTRAL-F LF100-2.2 A 8 D	206.6	39.4	82	76700	52	2 x 3	3.84	9.1	517	680	2" 1/2
MISTRAL-F LF100-2.2 B 8 D	247.4	47.2	55	72250	52	2 x 3	3.84	9.1	775	760	2" 1/2
MISTRAL-F LF100-2.2 C 8 D	267.1	51.0	38	68300	52	2 x 3	3.84	9.1	1033	840	DN80
MISTRAL-F LF100-3.2 A 8 D	298.4	57.0	33	115000	53	2 x 2	5.76	13.7	775	1000	DN100
MISTRAL-F LF100-3.2 B 8 D	357.8	68.3	23	108400	53	2 x 2	5.76	13.7	1162	1125	DN100
MISTRAL-F LF100-3.2 C 8 D	386.7	73.8	16	102450	53	2 x 2	5.76	13.7	1550	1245	DN100
MISTRAL-F LF100-4.2 A 8 D	400.6	76.5	25	148450	54	2 x 4	7.68	18.2	982	1325	DN100
MISTRAL-F LF100-4.2 B 8 D	472.2	90.1	16	138150	54	2 x 4	7.68	18.2	1473	1485	DN100
MISTRAL-F LF100-4.2 C 8 D	535.1	102.1	83	129600	54	2 x 4	7.68	18.2	1964	1645	DN100
MISTRAL-F LF100-5.2 A 8 D	515.2	98.3	48	185550	55	2 x 5	9.60	22.8	1228	1650	DN100
MISTRAL-F LF100-5.2 B 8 D	606.5	115.8	31	172700	55	2 x 5	9.60	22.8	1841	1850	DN100
MISTRAL-F LF100-5.2 C 8 D	645.8	123.2	21	162000	55	2 x 5	9.60	22.8	2455	2050	DN100

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MISTRAL-F

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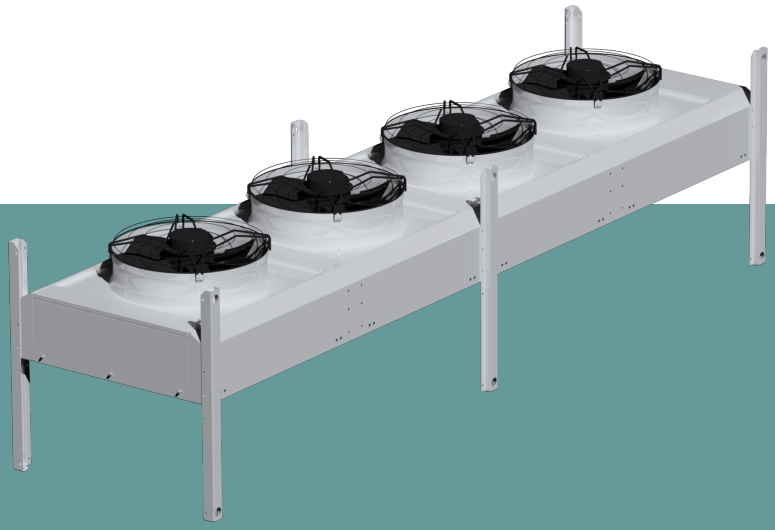

SELECTION GUIDE

June 2020

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