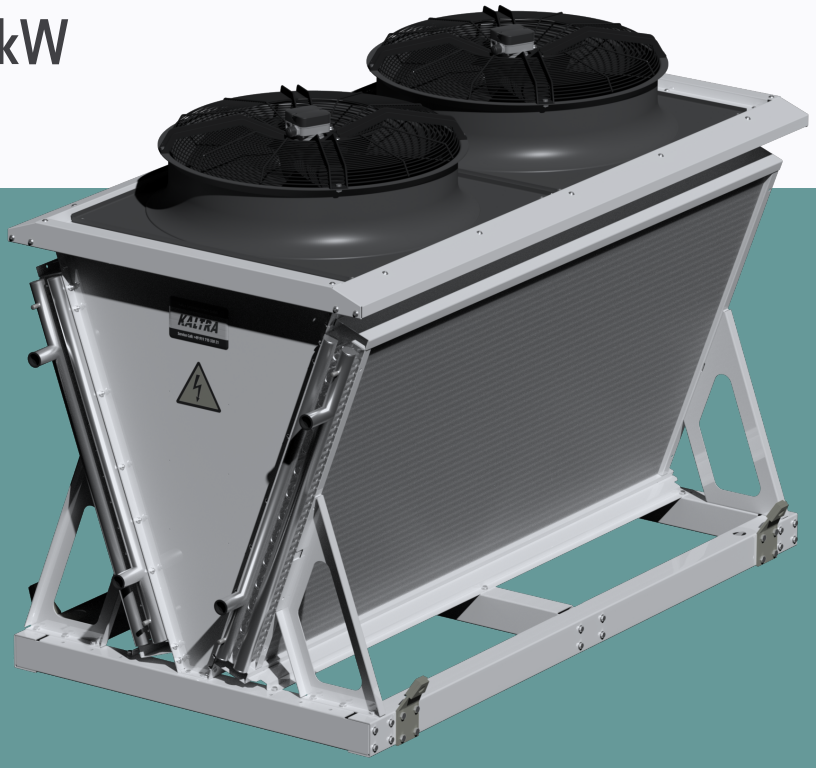
MISTRAL-V

Compact dry coolers

Heat rejection: 20÷800kW



SELECTION GUIDE

June 2020

www.kaltra.com

KALTRA

MISTRAL-V

Compact dry coolers

Mistral-V 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
- Compact design

Features and optionals

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

- DESIGNED FOR WATER, GLYCOLS, OILS AND SPECIAL FLUIDS
- EVAPORATIVE PRE-COOLING OR WATER SPRAY SYSTEMS
- INTELLIGENT FAN SPEED CONTROL
- EVAPORATING WATER RECIRCULATION, PUMPING, AND TOP-UP
- LEADING ENERGY EFFICIENCIES IN APPLICATIONS
- HEAT EXCHANGER COATINGS FOR CORROSION PROTECTION
- SPACE-SAVING, LOW-HEIGHT DESIGN
- ULTRA-LOW NOISE EMISSIONS

KALTRA

MISTRAL-V

Compact dry coolers

Axial fans

Available fans are axial AC-driven or EC-driven with Modbus control and optional diffusers to reduce noise emissions. Our intelligent fan system also contributes to the lowest energy consumption.

Fan speed control

Fan speed controllers, optionally available for both AC- and EC-driven fans, enable precise thermal management for Mistral-V dry coolers, and also offer fan monitoring functionality for EC-driven fans via Modbus communication protocol. Weatherproof enclosure ensures reliable operation in a wide range of operating conditions.

Heat exchangers

Mistral-V 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%	20 ÷ 800 kW	FIN SPACING	2.1 / 2.4 / 3.6 mm
UNIT LENGTH	< 11500 mm	FAN DIAMETER	630 / 800 / 900 / 1000 mm
HEAT EXCHANGERS	FINNED TUBE	NUMBER OF FANS	1 ÷ 8
FIN/TUBE MATERIAL	ALUMINUM / COPPER	FAN MOTORS	AC / EC

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

KALTRA

MISTRAL-V SV60

Compact dry coolers

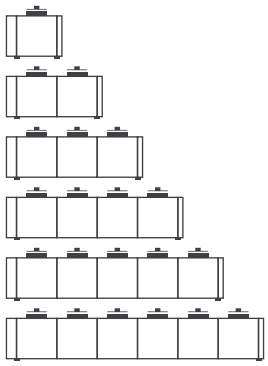
www.kaltra.com

Ø 630 mm
FAN DIAMETER

18,7 ÷ 336,6 kW
CAPACITY @ DT 15K

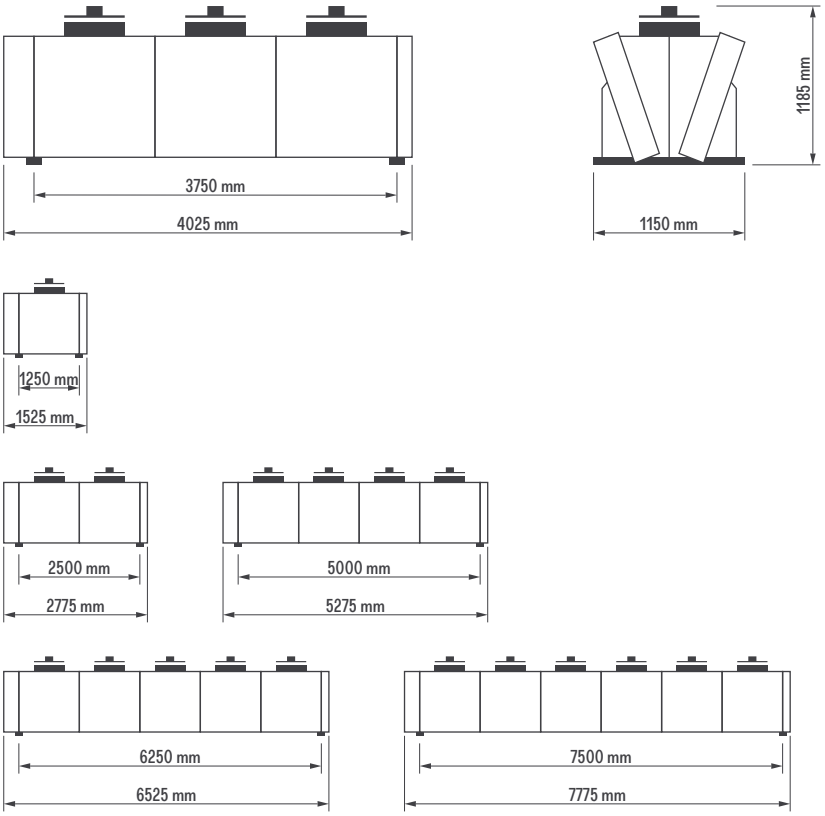
1 ÷ 6
NUMBER OF FANS

MISTRAL-V SV60-1.1
MISTRAL-V SV60-2.1
MISTRAL-V SV60-3.1
MISTRAL-V SV60-4.1
MISTRAL-V SV60-5.1
MISTRAL-V SV60-6.1



DIMENSIONS

MISTRAL-V SV60-1.1/2.1/3.1/4.1/5.1/6.1



MODEL CODE

MISTRAL-V	S	V	60	2.1	A	4D	AC

MISTRAL-V	Compact V-shaped dry cooler
S	S = short coil height [not present] = Standard coil height L = Increased coil height
V	V = Dry cooler with single fan row
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-V SV60

Compact 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-V SV60-1.1 A 4 D	42.0	8.0	64	15500	49	1	1.97	3.4	109	140	2x 3/4"
MISTRAL-V SV60-1.1 B 4 D	52.0	9.9	63	15150	49	1	1.97	3.4	163	160	2x 3/4"
MISTRAL-V SV60-1.1 C 4 D	57.9	11.0	54	14850	49	1	1.97	3.4	218	175	2x 3/4"
MISTRAL-V SV60-2.1 A 4 D	80.5	15.4	24	31050	52	2	3.94	6.8	218	250	2x 3/4"
MISTRAL-V SV60-2.1 B 4 D	104.6	20.0	66	30350	52	2	3.94	6.8	327	285	2x 1"
MISTRAL-V SV60-2.1 C 4 D	116.0	22.1	50	29650	52	2	3.94	6.8	436	318	2x 1"
MISTRAL-V SV60-3.1 A 4 D	124.2	23.7	41	46600	54	3	5.91	10.2	327	360	2x 1"
MISTRAL-V SV60-3.1 B 4 D	152.1	29.0	28	45500	54	3	5.91	10.2	490	410	2x 1"
MISTRAL-V SV60-3.1 C 4 D	173.9	33.2	49	44500	54	3	5.91	10.2	654	460	2x 1"1/4
MISTRAL-V SV60-4.1 A 4 D	153.1	29.2	11	62100	55	4	7.88	13.6	436	470	2x 1"1/4
MISTRAL-V SV60-4.1 B 4 D	209.5	40.0	66	60700	55	4	7.88	13.6	654	535	2x 1"1/4
MISTRAL-V SV60-4.1 C 4 D	231.7	44.2	48	59300	55	4	7.88	13.6	872	605	2x 1"1/2
MISTRAL-V SV60-5.1 A 4 D	200.9	38.3	22	77650	56	5	9.85	17.0	545	580	2x 1"1/2
MISTRAL-V SV60-5.1 B 4 D	246.0	47.0	16	75850	56	5	9.85	17.0	817	665	2x 1"1/2
MISTRAL-V SV60-5.1 C 4 D	294.7	56.2	90	74150	56	5	9.85	17.0	1089	750	2x 1"1/2
MISTRAL-V SV60-6.1 A 4 D	248.2	47.4	39	93200	57	6	11.82	20.4	654	690	2x 1"1/2
MISTRAL-V SV60-6.1 B 4 D	303.9	58.0	27	91050	57	6	11.82	20.4	980	790	2x 2"
MISTRAL-V SV60-6.1 C 4 D	336.6	64.2	20	88950	57	6	11.82	20.4	1307	890	2x 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-V SV60-1.1 A 6 D	32.4	6.2	57	10050	38	1	0.60	1.2	109	140	2x 3/4"
MISTRAL-V SV60-1.1 B 6 D	38.1	7.3	37	9850	38	1	0.60	1.2	163	160	2x 3/4"
MISTRAL-V SV60-1.1 C 6 D	41.8	8.0	58	9600	38	1	0.60	1.2	218	175	2x 3/4"
MISTRAL-V SV60-2.1 A 6 D	65.2	12.5	62	20100	41	2	1.20	2.4	218	250	2x 3/4"
MISTRAL-V SV60-2.1 B 6 D	76.4	14.6	38	19700	41	2	1.20	2.4	327	285	2x 1"
MISTRAL-V SV60-2.1 C 6 D	83.5	15.9	53	19250	41	2	1.20	2.4	436	320	2x 1"
MISTRAL-V SV60-3.1 A 6 D	97.6	18.6	56	30200	43	3	1.80	3.6	327	360	2x 1"
MISTRAL-V SV60-3.1 B 6 D	114.6	21.9	38	29500	43	3	1.80	3.6	490	410	2x 1"
MISTRAL-V SV60-3.1 C 6 D	125.4	23.9	55	28850	43	3	1.80	3.6	654	460	2x 1"1/4
MISTRAL-V SV60-4.1 A 6 D	130.3	24.9	59	40250	44	4	2.40	4.8	436	470	2x 1"1/4
MISTRAL-V SV60-4.1 B 6 D	152.9	29.2	38	39350	44	4	2.40	4.8	654	535	2x 1"1/4
MISTRAL-V SV60-4.1 C 6 D	167.5	32.0	60	38500	44	4	2.40	4.8	852	605	2x 1"1/2
MISTRAL-V SV60-5.1 A 6 D	152.7	29.1	14	50300	45	5	3.00	6.0	545	580	2x 1"1/2
MISTRAL-V SV60-5.1 B 6 D	194.5	37.1	72	49200	45	5	3.00	6.0	817	665	2x 1"1/2
MISTRAL-V SV60-5.1 C 6 D	208.6	39.8	49	48100	45	5	3.00	6.0	1089	750	2x 1"1/2
MISTRAL-V SV60-6.1 A 6 D	188.8	36.1	24	60400	46	6	3.60	7.2	654	690	2x 1"1/2
MISTRAL-V SV60-6.1 B 6 D	221.8	42.3	16	59050	46	6	3.60	7.2	980	790	2x 2"
MISTRAL-V SV60-6.1 C 6 D	252.8	48.2	82	57750	46	6	3.60	7.2	1307	890	2x 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 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-V SV60-1.1 A 8 D	23.2	4.4	31	6300	31	1	0.24	0.6	109	140	2x 3/4"
MISTRAL-V SV60-1.1 B 8 D	28.6	5.1	44	6150	31	1	0.24	0.6	163	160	2x 3/4"
MISTRAL-V SV60-1.1 C 8 D	28.0	5.3	29	6050	31	1	0.24	0.6	218	175	2x 3/4"
MISTRAL-V SV60-2.1 A 8 D	47.7	9.1	67	12600	34	2	0.47	1.1	218	250	2x 3/4"
MISTRAL-V SV60-2.1 B 8 D	53.5	10.2	40	12350	34	2	0.47	1.1	327	285	2x 1"
MISTRAL-V SV60-2.1 C 8 D	56.6	10.8	59	12100	34	2	0.47	1.1	436	318	2x 1"
MISTRAL-V SV60-3.1 A 8 D	70.1	13.4	31	18850	36	3	0.71	1.7	327	360	2x 1"
MISTRAL-V SV60-3.1 B 8 D	80.3	15.3	43	18500	36	3	0.71	1.7	490	410	2x 1"
MISTRAL-V SV60-3.1 C 8 D	84.9	16.2	57	18150	36	3	0.71	1.7	654	460	2x 1"1/4
MISTRAL-V SV60-4.1 A 8 D	93.6	17.9	33	25150	37	4	0.94	2.2	436	470	2x 1"1/4
MISTRAL-V SV60-4.1 B 8 D	107.7	20.5	53	24650	37	4	0.94	2.2	654	535	2x 1"1/4
MISTRAL-V SV60-4.1 C 8 D	112.1	21.4	29	24250	37	4	0.94	2.2	872	605	2x 1"1/2
MISTRAL-V SV60-5.1 A 8 D	119.2	22.7	62	31450	38	5	1.18	2.8	545	580	2x 1"1/2
MISTRAL-V SV60-5.1 B 8 D	133.7	25.5	37	30850	38	5	1.18	2.8	817	665	2x 1"1/2
MISTRAL-V SV60-5.1 C 8 D	141.5	27.0	55	30300	38	5	1.18	2.8	1089	750	2x 1"1/2
MISTRAL-V SV60-6.1 A 8 D	135.5	25.9	13	37750	39	6	1.41	3.3	654	690	2x 1"1/2
MISTRAL-V SV60-6.1 B 8 D	162.1	30.9	62	37000	39	6	1.41	3.3	980	790	2x 2"
MISTRAL-V SV60-6.1 C 8 D	169.1	32.3	41	36350	39	6	1.41	3.3	1307	890	2x 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-V SV60-1.1 A 12 D	18.7	3.6	48	4550	24	1	0.11	0.3	109	140	2x 3/4"
MISTRAL-V SV60-1.1 B 12 D	20.3	3.9	27	4450	24	1	0.11	0.3	163	160	2x 3/4"
MISTRAL-V SV60-1.1 C 12 D	20.5	3.9	17	4300	24	1	0.11	0.3	218	175	2x 3/4"
MISTRAL-V SV60-2.1 A 12 D	37.3	7.1	43	9150	27	2	0.22	0.5	218	250	2x 3/4"
MISTRAL-V SV60-2.1 B 12 D	40.9	7.8	49	8900	27	2	0.22	0.5	327	285	2x 1"
MISTRAL-V SV60-2.1 C 12 D	41.5	7.9	33	8650	27	2	0.22	0.5	436	320	2x 1"
MISTRAL-V SV60-3.1 A 12 D	55.9	10.7	42	13700	29	3	0.33	0.8	327	360	2x 1"
MISTRAL-V SV60-3.1 B 12 D	61.6	11.8	56	13400	29	3	0.33	0.8	490	410	2x 1"
MISTRAL-V SV60-3.1 C 12 D	62.3	11.9	33	12950	29	3	0.33	0.8	654	460	2x 1"1/4
MISTRAL-V SV60-4.1 A 12 D	75.0	14.3	52	18300	30	4	0.44	1.1	436	470	2x 1"1/4
MISTRAL-V SV60-4.1 B 12 D	82.1	15.7	53	17850	30	4	0.44	1.1	654	535	2x 1"1/4
MISTRAL-V SV60-4.1 C 12 D	83.1	15.8	32	17300	30	4	0.44	1.1	852	605	2x 1"1/2
MISTRAL-V SV60-5.1 A 12 D	93.2	17.8	40	22850	31	5	0.55	1.4	545	580	2x 1"1/2
MISTRAL-V SV60-5.1 B 12 D	102.6	19.6	51	22300	31	5	0.55	1.4	817	665	2x 1"1/2
MISTRAL-V SV60-5.1 C 12 D	103.8	19.8	32	21600	31	5	0.55	1.4	1089	750	2x 1"1/2
MISTRAL-V SV60-6.1 A 12 D	113.1	21.6	68	27400	32	6	0.66	1.6	654	690	2x 1"1/2
MISTRAL-V SV60-6.1 B 12 D	122.6	23.4	38	26750	32	6	0.66	1.6	980	790	2x 2"
MISTRAL-V SV60-6.1 C 12 D	124.6	23.8	33	25950	32	6	0.66	1.6	1307	890	2x 2"

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

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MISTRAL-V SV80

Compact dry coolers

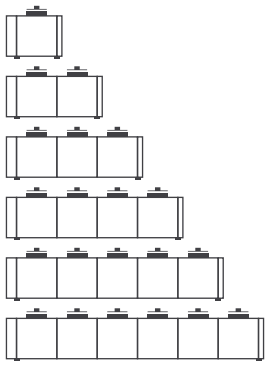
www.kaltra.com

Ø 800 mm
FAN DIAMETER

40,6 ÷ 392,9 kW
CAPACITY @ DT 15K

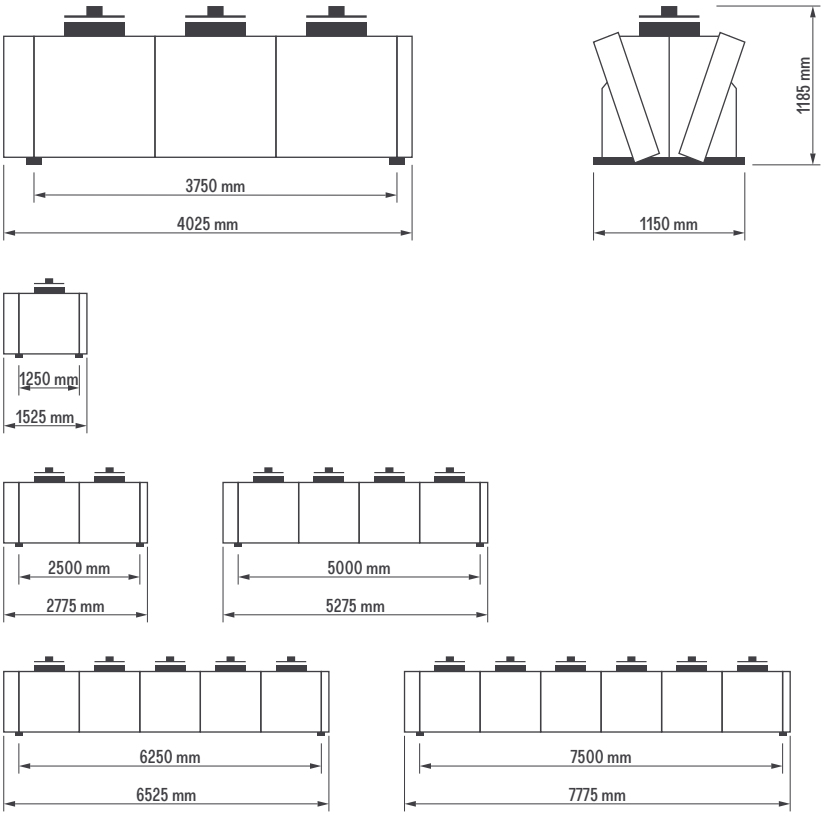
1 ÷ 6
NUMBER OF FANS

MISTRAL-V SV80-1.1
MISTRAL-V SV80-2.1
MISTRAL-V SV80-3.1
MISTRAL-V SV80-4.1
MISTRAL-V SV80-5.1
MISTRAL-V SV80-6.1



DIMENSIONS

MISTRAL-V SV80-1.1/2.1/3.1/4.1/5.1/6.1



MODEL CODE

MISTRAL-V	S	V	80	2.1	A	4D	AC

MISTRAL-V	Compact V-shaped dry cooler
S	S = short coil height [not present] = Standard coil height L = Increased coil height
V	V = Dry cooler with single fan row
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-V SV80

Compact 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-V SV80-1.1 A 6 D	47.0	9.0	35	20200	46	1	1.72	3.9	109	140	2x 3/4"
MISTRAL-V SV80-1.1 B 6 D	59.7	11.4	52	19200	46	1	1.72	3.9	163	160	2x 3/4"
MISTRAL-V SV80-1.1 C 6 D	67.8	12.9	74	18250	46	1	1.72	3.9	218	175	2x 3/4"
MISTRAL-V SV80-2.1 A 6 D	93.7	17.9	32	40450	49	2	3.44	7.8	218	250	2x 3/4"
MISTRAL-V SV80-2.1 B 6 D	115.9	22.1	24	38350	49	2	3.44	7.8	327	285	2x 1"
MISTRAL-V SV80-2.1 C 6 D	135.4	25.8	66	36550	49	2	3.44	7.8	436	320	2x 1"
MISTRAL-V SV80-3.1 A 6 D	144.5	27.6	53	60650	51	3	5.16	11.7	327	360	2x 1"
MISTRAL-V SV80-3.1 B 6 D	177.8	33.9	38	57550	51	3	5.16	11.7	490	410	2x 1"
MISTRAL-V SV80-3.1 C 6 D	203.0	38.7	64	54800	51	3	5.16	11.7	654	460	2x 1"1/4
MISTRAL-V SV80-4.1 A 6 D	178.4	34.1	15	80850	52	4	6.88	15.6	436	470	2x 1"1/4
MISTRAL-V SV80-4.1 B 6 D	245.0	46.8	87	76700	52	4	6.88	15.6	654	535	2x 1"1/4
MISTRAL-V SV80-4.1 C 6 D	270.5	51.6	62	73050	52	4	6.88	15.6	852	605	2x 1"1/2
MISTRAL-V SV80-5.1 A 6 D	233.7	44.6	29	101100	53	5	8.60	19.5	545	580	2x 1"1/2
MISTRAL-V SV80-5.1 B 6 D	287.7	54.9	21	95900	53	5	8.60	19.5	817	665	2x 1"1/2
MISTRAL-V SV80-5.1 C 6 D	318.3	60.7	15	91300	53	5	8.60	19.5	1089	750	2x 1"1/2
MISTRAL-V SV80-6.1 A 6 D	288.7	55.1	51	121300	54	6	10.32	23.4	654	690	2x 1"1/2
MISTRAL-V SV80-6.1 B 6 D	355.3	67.8	36	115050	54	6	10.32	23.4	980	790	2x 2"
MISTRAL-V SV80-6.1 C 6 D	392.9	75.0	26	109600	54	6	10.32	23.4	1307	890	2x 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-V SV80-1.1 A 8 D	40.6	7.8	60	14650	39	1	0.77	2.2	109	140	2x 3/4"
MISTRAL-V SV80-1.1 B 8 D	49.0	9.4	57	13950	39	1	0.77	2.2	163	160	2x 3/4"
MISTRAL-V SV80-1.1 C 8 D	53.3	10.2	47	13300	39	1	0.77	2.2	218	175	2x 3/4"
MISTRAL-V SV80-2.1 A 8 D	77.8	14.8	23	29300	42	2	1.54	4.4	218	250	2x 3/4"
MISTRAL-V SV80-2.1 B 8 D	98.6	18.8	59	27900	42	2	1.54	4.4	327	285	2x 1"
MISTRAL-V SV80-2.1 C 8 D	108.5	20.7	83	26600	42	2	1.54	4.4	436	320	2x 1"
MISTRAL-V SV80-3.1 A 8 D	120.0	22.9	38	44000	44	3	2.31	6.7	327	360	2x 1"
MISTRAL-V SV80-3.1 B 8 D	148.1	28.3	59	41800	44	3	2.31	6.7	490	410	2x 1"
MISTRAL-V SV80-3.1 C 8 D	160.0	30.5	42	39950	44	3	2.31	6.7	654	460	2x 1"1/4
MISTRAL-V SV80-4.1 A 8 D	165.5	31.6	89	58650	45	4	3.08	8.9	436	470	2x 1"1/4
MISTRAL-V SV80-4.1 B 8 D	197.5	37.7	60	55750	45	4	3.08	8.9	654	535	2x 1"1/4
MISTRAL-V SV80-4.1 C 8 D	213.2	40.7	41	53250	45	4	3.08	8.9	852	605	2x 1"1/2
MISTRAL-V SV80-5.1 A 8 D	194.0	37.0	21	73300	46	5	3.85	11.1	545	580	2x 1"1/2
MISTRAL-V SV80-5.1 B 8 D	231.9	44.3	14	69700	46	5	3.85	11.1	817	665	2x 1"1/2
MISTRAL-V SV80-5.1 C 8 D	271.1	51.7	78	66550	46	5	3.85	11.1	1089	750	2x 1"1/2
MISTRAL-V SV80-6.1 A 8 D	239.8	45.8	37	87950	47	6	4.62	13.3	654	690	2x 1"1/2
MISTRAL-V SV80-6.1 B 8 D	286.5	54.7	25	83650	47	6	4.62	13.3	980	790	2x 2"
MISTRAL-V SV80-6.1 C 8 D	309.7	59.1	17	79850	47	6	4.62	13.3	1307	890	2x 2"

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

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MISTRAL-V LV80

Compact dry coolers

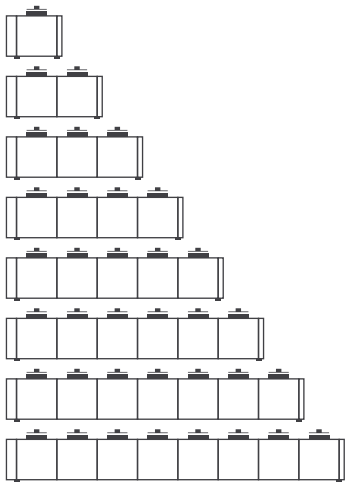
www.kaltra.com

Ø 800 mm
FAN DIAMETER

47,4 ÷ 591,2 kW
CAPACITY @ DT 15K

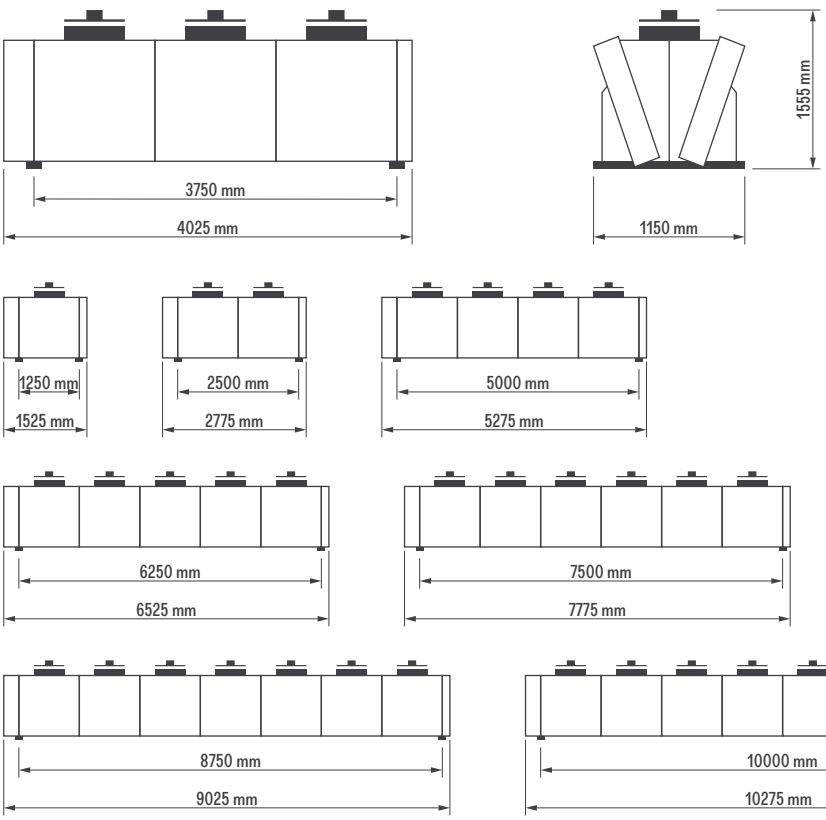
1 ÷ 8
NUMBER OF FANS

MISTRAL-V LV80-1.1
MISTRAL-V LV80-2.1
MISTRAL-V LV80-3.1
MISTRAL-V LV80-4.1
MISTRAL-V LV80-5.1
MISTRAL-V LV80-6.1
MISTRAL-V LV80-7.1
MISTRAL-V LV80-8.1



DIMENSIONS

MISTRAL-V LV80-1.1/2.1/3.1/4.1/5.1/6.1/7.1/8.1



MODEL CODE

MISTRAL-V	L	V	80	2.1	A	4D	AC

MISTRAL-V	Compact V-shaped dry cooler
L	S = short coil height [not present] = Standard coil height L = Increased coil height
V	V = Dry cooler with single fan row
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

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-V LV80-1.1 A 6 D	56.5	10.8	63	21150	46	1	1.72	3.9	145	185	2x 3/4"
MISTRAL-V LV80-1.1 B 6 D	69.0	13.2	45	20400	46	1	1.72	3.9	218	205	2x 3/4"
MISTRAL-V LV80-1.1 C 6 D	77.1	14.7	55	19700	46	1	1.72	3.9	290	230	2x 1"
MISTRAL-V LV80-2.1 A 6 D	109.1	20.8	27	42250	49	2	3.44	7.8	290	325	2x 1"
MISTRAL-V LV80-2.1 B 6 D	140.6	26.8	71	40800	49	2	3.44	7.8	436	370	2x 1"1/4
MISTRAL-V LV80-2.1 C 6 D	154.3	29.4	50	39450	49	2	3.44	7.8	581	415	2x 1"1/4
MISTRAL-V LV80-3.1 A 6 D	167.6	32.0	42	63400	51	3	5.16	11.7	436	465	2x 1"1/4
MISTRAL-V LV80-3.1 B 6 D	203.9	38.9	29	61200	51	3	5.16	11.7	654	535	2x 1"1/2
MISTRAL-V LV80-3.1 C 6 D	231.1	44.1	48	59150	51	3	5.16	11.7	871	600	2x 1"1/2
MISTRAL-V LV80-4.1 A 6 D	206.6	39.4	11	84500	52	4	6.88	15.6	581	605	2x 1"1/2
MISTRAL-V LV80-4.1 B 6 D	280.9	53.6	67	81600	52	4	6.88	15.6	871	695	2x 1"1/2
MISTRAL-V LV80-4.1 C 6 D	308.3	58.8	47	78850	52	4	6.88	15.6	1162	785	2x 2"
MISTRAL-V LV80-5.1 A 6 D	271.1	51.7	23	105650	53	5	8.60	19.5	726	745	2x 2"
MISTRAL-V LV80-5.1 B 6 D	329.9	63.0	16	102000	53	5	8.60	19.5	1089	860	2x 2"
MISTRAL-V LV80-5.1 C 6 D	362.6	69.2	11	98550	53	5	8.60	19.5	1452	975	2x 2"
MISTRAL-V LV80-6.1 A 6 D	334.9	63.9	40	126800	53	6	10.32	23.4	872	890	2x 2"
MISTRAL-V LV80-6.1 B 6 D	407.5	77.8	28	122400	53	6	10.32	23.4	1307	1025	2x 2"
MISTRAL-V LV80-6.1 C 6 D	447.8	85.4	20	118300	53	6	10.32	23.4	1743	1160	2x 2"1/2
MISTRAL-V LV80-7.1 A 6 D	398.5	76.0	63	147900	54	7	12.04	27.3	726	745	2x 2"
MISTRAL-V LV80-7.1 B 6 D	484.6	92.5	44	142800	54	7	12.04	27.3	1525	1185	2x 2"1/2
MISTRAL-V LV80-7.1 C 6 D	532.2	101.5	31	138000	54	7	12.04	27.3	2033	1345	2x 2"1/2
MISTRAL-V LV80-8.1 A 6 D	452.9	86.4	30	165800	54	8	13.76	31.2	1104	1170	2x 2"1/2
MISTRAL-V LV80-8.1 B 6 D	543.9	103.8	20	158750	54	8	13.76	31.2	1657	1350	2x 2"1/2
MISTRAL-V LV80-8.1 C 6 D	591.2	112.8	14	152400	54	8	13.76	31.2	2209	1530	2x 3"

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-V LV80-1.1 A 8 D	47.4	9.1	80	15300	39	1	0.77	2.2	145	185	2x 3/4"
MISTRAL-V LV80-1.1 B 8 D	55.7	10.6	51	14800	39	1	0.77	2.2	218	205	2x 3/4"
MISTRAL-V LV80-1.1 C 8 D	61.0	11.6	69	14350	39	1	0.77	2.2	290	230	2x 1"
MISTRAL-V LV80-2.1 A 8 D	94.7	18.1	72	30600	42	2	1.54	4.4	290	325	2x 1"
MISTRAL-V LV80-2.1 B 8 D	113.7	21.7	91	29550	42	2	1.54	4.4	436	370	2x 1"1/4
MISTRAL-V LV80-2.1 C 8 D	120.0	22.9	32	28650	42	2	1.54	4.4	581	415	2x 1"1/4
MISTRAL-V LV80-3.1 A 8 D	137.3	26.2	29	45900	44	3	2.31	6.7	436	465	2x 1"1/4
MISTRAL-V LV80-3.1 B 8 D	167.4	31.9	45	44350	44	3	2.31	6.7	654	535	2x 1"1/2
MISTRAL-V LV80-3.1 C 8 D	179.7	34.3	31	43000	44	3	2.31	6.7	871	600	2x 1"1/2
MISTRAL-V LV80-4.1 A 8 D	189.3	36.1	68	61200	45	4	3.08	8.9	581	605	2x 1"1/2
MISTRAL-V LV80-4.1 B 8 D	223.1	42.6	44	59150	45	4	3.08	8.9	871	695	2x 1"1/2
MISTRAL-V LV80-4.1 C 8 D	239.7	45.7	30	57300	45	4	3.08	8.9	1162	785	2x 2"
MISTRAL-V LV80-5.1 A 8 D	221.9	42.4	16	76450	46	5	3.85	11.1	726	745	2x 2"
MISTRAL-V LV80-5.1 B 8 D	283.9	54.2	85	73950	46	5	3.85	11.1	1089	860	2x 2"
MISTRAL-V LV80-5.1 C 8 D	304.6	58.1	58	71650	46	5	3.85	11.1	1452	975	2x 2"
MISTRAL-V LV80-6.1 A 8 D	274.3	52.3	28	91750	46	6	4.62	13.3	872	890	2x 2"
MISTRAL-V LV80-6.1 B 8 D	323.8	61.8	18	88700	46	6	4.62	13.3	1307	1025	2x 2"
MISTRAL-V LV80-6.1 C 8 D	348.2	66.4	13	85950	46	6	4.62	13.3	1743	1160	2x 2"1/2
MISTRAL-V LV80-7.1 A 8 D	326.5	62.3	45	107050	47	7	5.39	15.5	726	745	2x 2"
MISTRAL-V LV80-7.1 B 8 D	385.0	73.4	29	103500	47	7	5.39	15.5	1525	1185	2x 2"1/2
MISTRAL-V LV80-7.1 C 8 D	414.0	79.0	20	100300	47	7	5.39	15.5	2033	1345	2x 2"1/2
MISTRAL-V LV80-8.1 A 8 D	368.5	70.3	21	120100	47	8	6.16	17.8	1104	1170	2x 2"1/2
MISTRAL-V LV80-8.1 B 8 D	430.0	82.0	13	115350	47	8	6.16	17.8	1657	1350	2x 2"1/2
MISTRAL-V LV80-8.1 C 8 D	483.5	92.2	68	110950	47	8	6.16	17.8	2209	1530	2x 3"

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

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MISTRAL-V V90

Compact dry coolers

www.kaltra.com

Ø 900 mm
FAN DIAMETER

36,4 ÷ 771,2 kW
CAPACITY @ DT15K

1 ÷ 8
NUMBER OF FANS

MISTRAL-V V90-1.1

MISTRAL-V V90-2.1

MISTRAL-V V90-3.1

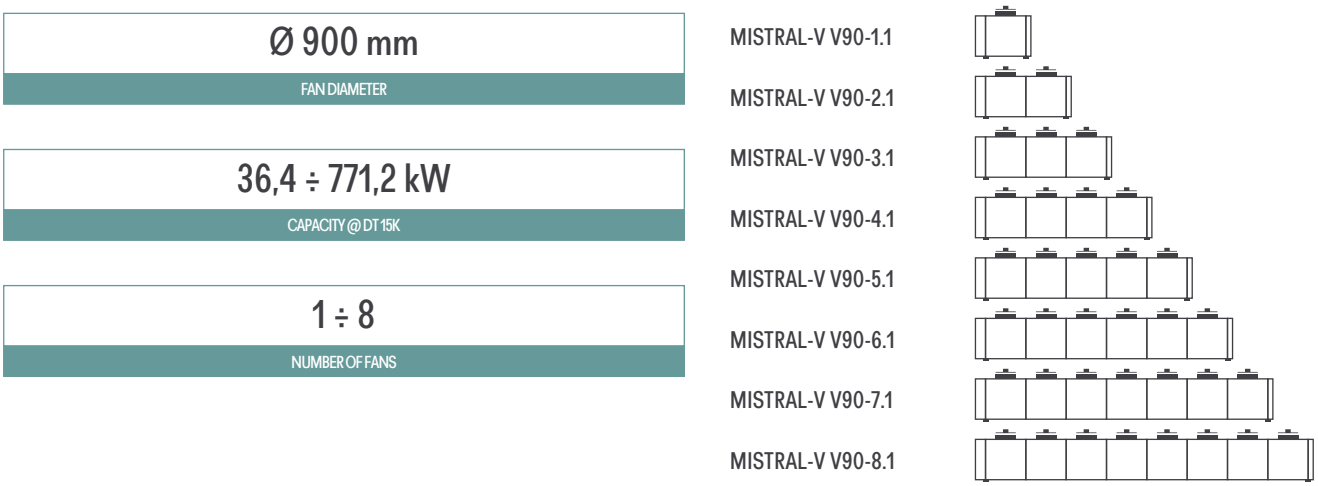
MISTRAL-V V90-4.1

MISTRAL-V V90-5.1

MISTRAL-V V90-6.1

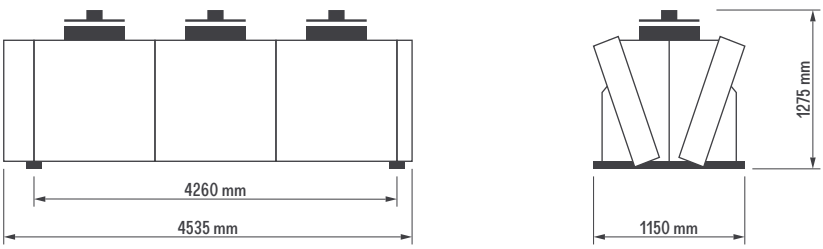
MISTRAL-V V90-7.1

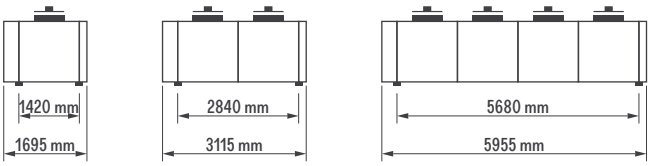
MISTRAL-V V90-8.1

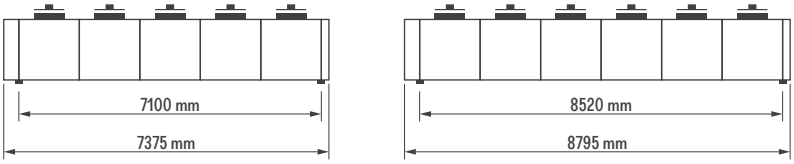


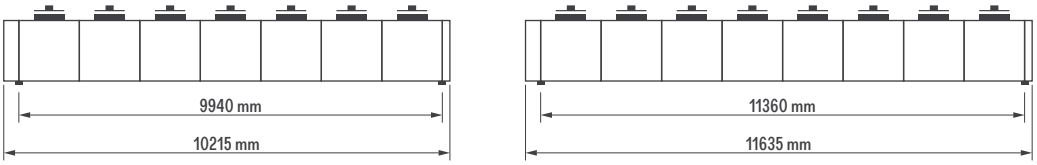
DIMENSIONS

MISTRAL-V V90-1.1/2.1/3.1/4.1/5.1/6.1/7.1/8.1









MODEL CODE

MISTRAL-V	-	V	90	2.1	A	4D	AC

MISTRAL-V	Compact V-shaped dry cooler
-	S = short coil height [not present] = Standard coil height L = Increased coil height
V	V = Dry cooler with single fan row
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-V V90-1.1 B 4 D	82.3	15.7	38	31250	60	1	4.60	7.8	186	190	2x 3/4"
MISTRAL-V V90-1.1 C 4 D	96.7	18.5	60	29750	60	1	4.60	7.8	248	205	2x 3/4"
MISTRAL-V V90-2.1 B 4 D	160.7	30.7	24	62550	63	2	9.20	15.6	371	340	2x 1"1/4
MISTRAL-V V90-2.1 C 4 D	193.7	37.0	59	59550	63	2	9.20	15.6	495	380	2x 1"1/4
MISTRAL-V V90-3.1 B 4 D	256.4	48.9	81	93800	65	3	13.80	23.4	557	500	2x 1"1/2
MISTRAL-V V90-3.1 C 4 D	291.1	55.6	61	89300	65	3	13.80	23.4	743	555	2x 1"1/2
MISTRAL-V V90-4.1 B 4 D	320.9	61.3	23	125050	66	4	18.40	31.2	743	655	2x 1"1/2
MISTRAL-V V90-4.1 C 4 D	364.7	69.6	17	119100	66	4	18.40	31.2	990	730	2x 2"
MISTRAL-V V90-5.1 B 4 D	416.8	79.6	45	156350	67	5	23.00	39.0	928	810	2x 2"
MISTRAL-V V90-5.1 C 4 D	473.6	90.4	34	148850	67	5	23.00	39.0	1238	905	2x 2"
MISTRAL-V V90-6.1 B 4 D	497.2	94.9	24	180300	67	6	27.60	46.8	1059	965	2x 2"
MISTRAL-V V90-6.1 C 4 D	557.1	106.3	18	170250	67	6	27.60	46.8	1411	1080	2x 2"
MISTRAL-V V90-7.1 B 4 D	593.2	113.2	39	210350	68	7	32.20	54.6	1235	1120	2x 2"1/2
MISTRAL-V V90-7.1 C 4 D	664.3	126.8	28	198600	68	7	32.20	54.6	1647	1255	2x 2"1/2
MISTRAL-V V90-8.1 B 4 D	689.2	131.6	58	240400	68	8	36.80	62.4	1411	1275	2x 2"1/2
MISTRAL-V V90-8.1 C 4 D	771.2	147.2	42	227000	68	8	36.80	62.4	1882	1430	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-V V90-1.1 A 6 D	57.4	11.0	36	26550	52	1	2.26	5.2	124	170	2x 3/4"
MISTRAL-V V90-1.1 B 6 D	74.8	14.3	73	25000	52	1	2.26	5.2	186	190	2x 3/4"
MISTRAL-V V90-1.1 C 6 D	83.9	16.0	71	23650	52	1	2.26	5.2	247	205	2x 3/4"
MISTRAL-V V90-2.1 A 6 D	113.0	21.6	26	53100	55	2	4.52	10.3	247	305	2x 1"
MISTRAL-V V90-2.1 B 6 D	149.4	28.5	66	50000	55	2	4.52	10.3	371	340	2x 1"1/4
MISTRAL-V V90-2.1 C 6 D	165.5	31.6	44	47250	55	2	4.52	10.3	495	380	2x 1"1/4
MISTRAL-V V90-3.1 A 6 D	180.6	34.5	89	79650	57	3	6.78	15.5	371	440	2x 1"1/4
MISTRAL-V V90-3.1 B 6 D	224.0	42.8	64	75000	57	3	6.78	15.5	557	500	2x 1"1/2
MISTRAL-V V90-3.1 C 6 D	248.9	47.5	46	70900	57	3	6.78	15.5	743	555	2x 1"1/2
MISTRAL-V V90-4.1 A 6 D	225.7	43.1	25	106200	58	4	9.04	20.6	495	575	2x 1"1/2
MISTRAL-V V90-4.1 B 6 D	280.2	53.5	18	100000	58	4	9.04	20.6	743	655	2x 1"1/2
MISTRAL-V V90-4.1 C 6 D	311.7	59.5	13	94500	58	4	9.04	20.6	990	730	2x 2"
MISTRAL-V V90-5.1 A 6 D	293.4	56.0	50	132750	59	5	11.30	25.8	619	715	2x 1"1/2
MISTRAL-V V90-5.1 B 6 D	364.1	69.5	36	125000	59	5	11.30	25.8	928	810	2x 2"
MISTRAL-V V90-5.1 C 6 D	404.9	77.3	26	118150	59	5	11.30	25.8	1238	905	2x 2"
MISTRAL-V V90-6.1 A 6 D	352.3	67.3	27	154150	59	6	13.56	30.9	706	850	2x 1"1/2
MISTRAL-V V90-6.1 B 6 D	429.8	82.0	19	143350	59	6	13.56	30.9	1059	965	2x 2"
MISTRAL-V V90-6.1 C 6 D	470.3	89.8	13	134050	59	6	13.56	30.9	1411	1080	2x 2"
MISTRAL-V V90-7.1 A 6 D	420.6	80.3	43	179850	60	7	15.82	36.1	823	985	2x 2"
MISTRAL-V V90-7.1 B 6 D	512.8	97.9	30	167200	60	7	15.82	36.1	1235	1120	2x 2"1/2
MISTRAL-V V90-7.1 C 6 D	560.8	107.0	21	156400	60	7	15.82	36.1	1647	1255	2x 2"1/2
MISTRAL-V V90-8.1 A 6 D	488.8	93.3	64	205550	60	8	18.08	41.2	941	1120	2x 2"
MISTRAL-V V90-8.1 B 6 D	595.6	113.7	45	191100	60	8	18.08	41.2	1411	1275	2x 2"1/2
MISTRAL-V V90-8.1 C 6 D	651.0	124.3	31	178750	60	8	18.08	41.2	1882	1430	2x 3"

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 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-V V90-1.1 A 8 D	47.4	9.1	51	17700	41	1	0.83	2.3	124	170	2x 3/4"
MISTRAL-V V90-1.1 B 8 D	58.0	11.1	67	16700	41	1	0.83	2.3	186	190	2x 3/4"
MISTRAL-V V90-1.1 C 8 D	62.6	11.9	43	15850	41	1	0.83	2.3	247	205	2x 3/4"
MISTRAL-V V90-2.1 A 8 D	95.3	18.2	53	35400	44	2	1,66	4.5	247	305	2x 1"
MISTRAL-V V90-2.1 B 8 D	114.5	21.9	41	33400	44	2	1,66	4.5	371	340	2x 1"1/4
MISTRAL-V V90-2.1 C 8 D	127.0	24.2	67	31700	44	2	1,66	4.5	495	380	2x 1"1/4
MISTRAL-V V90-3.1 A 8 D	143.7	27.4	60	53100	46	3	2.49	6.8	371	440	2x 1"1/4
MISTRAL-V V90-3.1 B 8 D	171.7	32.8	40	50100	46	3	2.49	6.8	557	500	2x 1"1/2
MISTRAL-V V90-3.1 C 8 D	185.5	35.4	28	47550	46	3	2.49	6.8	743	555	2x 1"1/2
MISTRAL-V V90-4.1 A 8 D	179.5	34.3	17	70800	47	4	3.32	9.1	495	575	2x 1"1/2
MISTRAL-V V90-4.1 B 8 D	214.6	41.0	11	66800	47	4	3.32	9.1	743	655	2x 1"1/2
MISTRAL-V V90-4.1 C 8 D	253.9	48.4	63	63400	47	4	3.32	9.1	990	730	2x 2"
MISTRAL-V V90-5.1 A 8 D	233.5	44.6	33	88500	48	5	4.15	11.4	619	715	2x 1"1/2
MISTRAL-V V90-5.1 B 8 D	279.2	53.3	22	83500	48	5	4.15	11.4	928	810	2x 2"
MISTRAL-V V90-5.1 C 8 D	301.8	57.6	15	79250	48	5	4.15	11.4	1238	905	2x 2"
MISTRAL-V V90-6.1 A 8 D	277.5	53.0	18	102900	48	6	4.98	13.6	706	850	2x 1"1/2
MISTRAL-V V90-6.1 B 8 D	351.3	67.0	91	95950	48	6	4.98	13.6	1059	965	2x 2"
MISTRAL-V V90-6.1 C 8 D	372.7	71.1	61	90150	48	6	4.98	13.6	1411	1080	2x 2"
MISTRAL-V V90-7.1 A 8 D	331.3	63.2	28	120050	49	7	5.81	15.9	823	985	2x 2"
MISTRAL-V V90-7.1 B 8 D	389.4	74.3	18	111950	49	7	5.81	15.9	1235	1120	2x 2"1/2
MISTRAL-V V90-7.1 C 8 D	414.5	79.1	12	105200	49	7	5.81	15.9	1647	1255	2x 2"1/2
MISTRAL-V V90-8.1 A 8 D	385.0	73.5	42	137200	49	8	6.64	18.2	941	1120	2x 2"
MISTRAL-V V90-8.1 B 8 D	452.2	86.3	27	127950	49	8	6.64	18.2	1411	1275	2x 2"1/2
MISTRAL-V V90-8.1 C 8 D	481.0	91.7	18	120200	49	8	6.64	18.2	1882	1430	2x 3"

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-V V90-1.1 A 12 D	36.4	7.0	56	11250	30	1	0.28	0.8	124	170	2x 3/4"
MISTRAL-V V90-1.1 B 12 D	45.2	8.1	83	10600	30	1	0.28	0.8	186	190	2x 3/4"
MISTRAL-V V90-1.1 C 12 D	43.8	8.4	46	9950	30	1	0.28	0.8	247	205	2x 3/4"
MISTRAL-V V90-2.1 A 12 D	72.8	13.9	51	22450	33	2	0.56	1.7	247	305	2x 1"
MISTRAL-V V90-2.1 B 12 D	83.2	15.9	35	21150	33	2	0.56	1.7	371	340	2x 1"1/4
MISTRAL-V V90-2.1 C 12 D	87.7	16.7	46	19900	33	2	0.56	1.7	495	380	2x 1"1/4
MISTRAL-V V90-3.1 A 12 D	107.9	20.6	36	33700	35	3	0.84	2.5	371	440	2x 1"1/4
MISTRAL-V V90-3.1 B 12 D	127.3	24.3	73	31750	35	3	0.84	2.5	557	500	2x 1"1/2
MISTRAL-V V90-3.1 C 12 D	131.5	25.1	47	29850	35	3	0.84	2.5	743	555	2x 1"1/2
MISTRAL-V V90-4.1 A 12 D	148.0	28.3	83	44950	36	4	1.12	3.3	495	575	2x 1"1/2
MISTRAL-V V90-4.1 B 12 D	168.3	32.1	51	42300	36	4	1.12	3.3	743	655	2x 1"1/2
MISTRAL-V V90-4.1 C 12 D	174.0	33.2	32	39800	36	4	1.12	3.3	990	730	2x 2"
MISTRAL-V V90-5.1 A 12 D	175.3	33.5	20	56150	37	5	1.40	4.2	619	715	2x 1"1/2
MISTRAL-V V90-5.1 B 12 D	199.7	38.1	12	52900	37	5	1.40	4.2	928	810	2x 2"
MISTRAL-V V90-5.1 C 12 D	220.5	42.1	61	49750	37	5	1.40	4.2	1238	905	2x 2"
MISTRAL-V V90-6.1 A 12 D	222.0	42.4	83	65100	37	6	1.68	5.0	706	850	2x 1"1/2
MISTRAL-V V90-6.1 B 12 D	247.1	47.1	49	60350	37	6	1.68	5.0	1059	965	2x 2"
MISTRAL-V V90-6.1 C 12 D	251.0	47.9	30	56100	37	6	1.68	5.0	1411	1080	2x 2"
MISTRAL-V V90-7.1 A 12 D	245.6	46.9	17	75950	38	7	1.96	5.8	823	985	2x 2"
MISTRAL-V V90-7.1 B 12 D	290.8	55.5	76	70400	38	7	1.96	5.8	1235	1120	2x 2"1/2
MISTRAL-V V90-7.1 C 12 D	295.0	56.3	47	65450	38	7	1.96	5.8	1647	1255	2x 2"1/2
MISTRAL-V V90-8.1 A 12 D	285.3	54.5	25	86800	38	8	2.24	6.6	941	1120	2x 2"
MISTRAL-V V90-8.1 B 12 D	318.5	60.8	15	80450	38	8	2.24	6.6	1411	1275	2x 2"1/2
MISTRAL-V V90-8.1 C 12 D	339.0	64.7	68	74800	38	8	2.24	6.6	1882	1430	2x 3"

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

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MISTRAL-V LV90

Compact dry coolers

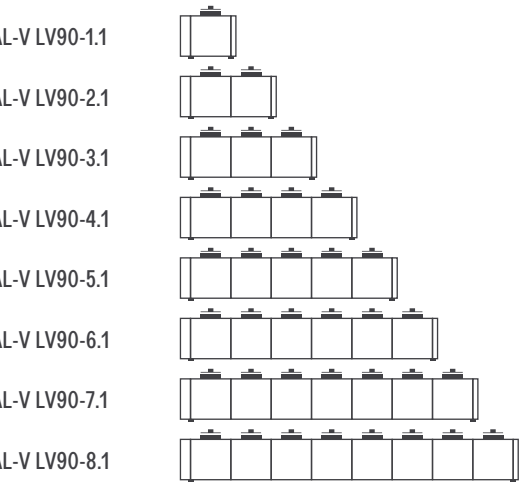
www.kaltra.com

Ø 900 mm
FAN DIAMETER

39,2 ÷ 828,3 kW
CAPACITY @ DT 15K

1 ÷ 8
NUMBER OF FANS

MISTRAL-V LV90-1.1
MISTRAL-V LV90-2.1
MISTRAL-V LV90-3.1
MISTRAL-V LV90-4.1
MISTRAL-V LV90-5.1
MISTRAL-V LV90-6.1
MISTRAL-V LV90-7.1
MISTRAL-V LV90-8.1



DIMENSIONS

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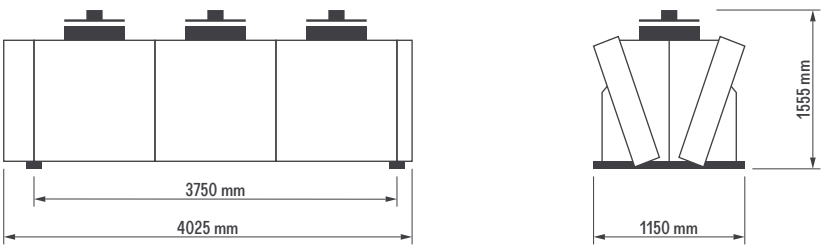

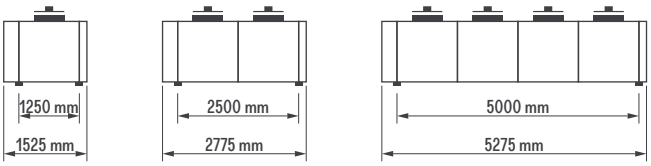

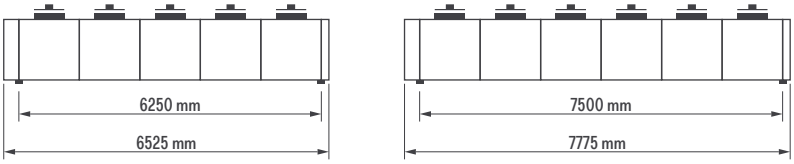

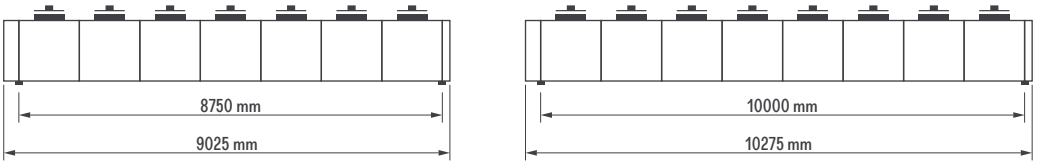

MODEL CODE

MISTRAL-V	L	V	90	2.1	A	4D	AC

MISTRAL-V	Compact V-shaped dry cooler
-	S = short coil height [not present] = Standard coil height L = Increased coil height
V	V = Dry cooler with single fan row
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-V LV90-1.1 B 4 D	93.1	17.8	77	33450	60	1	4.60	7.8	218	205	2x 3/4"
MISTRAL-V LV90-1.1 C 4 D	105.3	20.1	57	31200	60	1	4.60	7.8	290	230	2x 1"
MISTRAL-V LV90-2.1 B 4 D	179.2	34.2	31	64900	63	2	9.20	15.6	436	370	2x 1"1/4
MISTRAL-V LV90-2.1 C 4 D	203.2	38.8	24	62400	63	2	9.20	15.6	581	415	2x 1"1/4
MISTRAL-V LV90-3.1 B 4 D	275.2	52.5	49	97350	65	3	13.80	23.4	654	535	2x 1"1/2
MISTRAL-V LV90-3.1 C 4 D	311.8	59.5	37	93550	65	3	13.80	23.4	872	600	2x 1"1/2
MISTRAL-V LV90-4.1 B 4 D	340.1	64.9	13	129800	66	4	18.40	31.2	872	695	2x 1"1/2
MISTRAL-V LV90-4.1 C 4 D	429.3	82.0	85	124750	66	4	18.40	31.2	1162	785	2x 2"
MISTRAL-V LV90-5.1 B 4 D	445.4	85.0	27	162250	67	5	23.00	39.0	1089	860	2x 2"
MISTRAL-V LV90-5.1 C 4 D	504.9	96.4	20	155950	67	5	23.00	39.0	1452	975	2x 2"
MISTRAL-V LV90-6.1 B 4 D	549.9	104.9	47	194700	67	6	27.60	46.8	1307	1025	2x 2"
MISTRAL-V LV90-6.1 C 4 D	623.0	118.9	35	187150	67	6	27.60	46.8	1743	1160	2x 2"1/2
MISTRAL-V LV90-7.1 B 4 D	654.2	124.9	74	227150	68	7	32.20	54.6	1525	1185	2x 2"1/2
MISTRAL-V LV90-7.1 C 4 D	740.7	141.3	56	218350	68	7	32.20	54.6	2033	1345	2x 2"1/2
MISTRAL-V LV90-8.1 B 4 D	741.0	141.5	35	251450	68	8	36.80	62.4	1657	1350	2x 2"1/2
MISTRAL-V LV90-8.1 C 4 D	828.3	158.1	25	239700	68	8	36.80	62.4	2209	1530	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-V LV90-1.1 A 6 D	62.8	12.0	35	27400	52	1	2.26	5.2	145	185	2x 3/4"
MISTRAL-V LV90-1.1 B 6 D	81.2	15.5	61	26100	52	1	2.26	5.2	218	205	2x 3/4"
MISTRAL-V LV90-1.1 C 6 D	90.0	17.2	43	24900	52	1	2.26	5.2	291	230	2x 1"
MISTRAL-V LV90-2.1 A 6 D	126.5	24.2	35	54750	55	2	4.52	10.3	291	325	2x 1"
MISTRAL-V LV90-2.1 B 6 D	156.3	29.8	24	52200	55	2	4.52	10.3	436	370	2x 1"1/4
MISTRAL-V LV90-2.1 C 6 D	183.5	35.0	68	49850	55	2	4.52	10.3	581	415	2x 1"1/4
MISTRAL-V LV90-3.1 A 6 D	194.3	37.1	54	82100	57	3	6.78	15.5	436	465	2x 1"1/4
MISTRAL-V LV90-3.1 B 6 D	240.2	45.9	38	78250	57	3	6.78	15.5	654	535	2x 1"1/2
MISTRAL-V LV90-3.1 C 6 D	266.5	50.9	28	74750	57	3	6.78	15.5	872	600	2x 1"1/2
MISTRAL-V LV90-4.1 A 6 D	239.9	45.8	15	109500	58	4	9.04	20.6	581	605	2x 1"1/2
MISTRAL-V LV90-4.1 B 6 D	296.5	56.6	11	104350	58	4	9.04	20.6	872	695	2x 1"1/2
MISTRAL-V LV90-4.1 C 6 D	366.8	70.0	64	99650	58	4	9.04	20.6	1162	785	2x 2"
MISTRAL-V LV90-5.1 A 6 D	314.3	60.0	30	136900	59	5	11.30	25.8	726	745	2x 2"
MISTRAL-V LV90-5.1 B 6 D	388.6	74.2	21	130450	59	5	11.30	25.8	1089	860	2x 2"
MISTRAL-V LV90-5.1 C 6 D	431.5	82.3	15	124550	59	5	11.30	25.8	1452	975	2x 2"
MISTRAL-V LV90-6.1 A 6 D	388.2	74.1	52	164250	59	6	13.56	30.9	872	890	2x 2"
MISTRAL-V LV90-6.1 B 6 D	479.9	91.6	37	156550	59	6	13.56	30.9	1307	1025	2x 2"
MISTRAL-V LV90-6.1 C 6 D	532.6	101.7	27	149500	59	6	13.56	30.9	1743	1160	2x 2"1/2
MISTRAL-V LV90-7.1 A 6 D	462.0	88.2	82	191600	60	7	15.82	36.1	1017	1030	2x 2"
MISTRAL-V LV90-7.1 B 6 D	570.7	108.9	58	182650	60	7	15.82	36.1	1525	1185	2x 2"1/2
MISTRAL-V LV90-7.1 C 6 D	633.0	120.8	42	174400	60	7	15.82	36.1	2033	1345	2x 2"1/2
MISTRAL-V LV90-8.1 A 6 D	526.3	100.5	39	213300	60	8	18.08	41.2	1104	1170	2x 2"1/2
MISTRAL-V LV90-8.1 B 6 D	640.3	122.2	27	201050	60	8	18.08	41.2	1657	1350	2x 2"1/2
MISTRAL-V LV90-8.1 C 6 D	700.7	133.7	19	190350	60	8	18.08	41.2	2209	1530	2x 3"

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

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MISTRAL-V LV90

Compact 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-V LV90-1.1 A 8 D	51.6	9.9	54	18200	41	1	0.83	2.3	145	185	2x 3/4"
MISTRAL-V LV90-1.1 B 8 D	62.9	12.0	65	17400	41	1	0.83	2.3	218	205	2x 3/4"
MISTRAL-V LV90-1.1 C 8 D	68.9	13.1	85	16650	41	1	0.83	2.3	291	230	2x 3/4"
MISTRAL-V LV90-2.1 A 8 D	105.7	20.2	88	36400	44	2	1,66	4.5	291	325	2x 1"
MISTRAL-V LV90-2.1 B 8 D	125.7	24.0	58	34800	44	2	1,66	4.5	436	370	2x 1"1/4
MISTRAL-V LV90-2.1 C 8 D	135.4	25.8	40	33300	44	2	1,66	4.5	581	415	2x 1"1/4
MISTRAL-V LV90-3.1 A 8 D	153.2	29.2	36	54600	46	3	2.49	6.8	436	465	2x 1"1/4
MISTRAL-V LV90-3.1 B 8 D	188.5	36.0	56	52200	46	3	2.49	6.8	654	535	2x 1"1/2
MISTRAL-V LV90-3.1 C 8 D	202.8	38.7	38	50000	46	3	2.49	6.8	872	600	2x 1"1/2
MISTRAL-V LV90-4.1 A 8 D	211.3	40.3	83	72850	47	4	3.32	9.1	581	605	2x 1"1/2
MISTRAL-V LV90-4.1 B 8 D	251.2	47.9	55	69600	47	4	3.32	9.1	872	695	2x 1"1/2
MISTRAL-V LV90-4.1 C 8 D	270.6	51.6	38	66650	47	4	3.32	9.1	1162	785	2x 2"
MISTRAL-V LV90-5.1 A 8 D	247.7	47.3	20	91050	48	5	4.15	11.4	726	745	2x 1"1/2
MISTRAL-V LV90-5.1 B 8 D	295.0	56.3	13	87000	48	5	4.15	11.4	1089	860	2x 2"
MISTRAL-V LV90-5.1 C 8 D	343.9	65.6	71	83300	48	5	4.15	11.4	1452	975	2x 2"
MISTRAL-V LV90-6.1 A 8 D	306.1	58.4	34	109250	48	6	4.98	13.6	872	890	2x 1"1/2
MISTRAL-V LV90-6.1 B 8 D	364.5	69.6	23	104400	48	6	4.98	13.6	1307	1025	2x 2"
MISTRAL-V LV90-6.1 C 8 D	393.1	75.0	16	99950	48	6	4.98	13.6	1743	1160	2x 2"
MISTRAL-V LV90-7.1 A 8 D	364.3	69.5	54	127450	49	7	5.81	15.9	1017	1030	2x 2"
MISTRAL-V LV90-7.1 B 8 D	433.5	82.7	36	121800	49	7	5.81	15.9	1525	1185	2x 2"1/2
MISTRAL-V LV90-7.1 C 8 D	467.2	89.1	25	116600	49	7	5.81	15.9	2033	1345	2x 2"1/2
MISTRAL-V LV90-8.1 A 8 D	411.2	78.5	25	142150	49	8	6.64	18.2	1104	1170	2x 2"
MISTRAL-V LV90-8.1 B 8 D	482.3	92.1	16	134400	49	8	6.64	18.2	1657	1350	2x 2"1/2
MISTRAL-V LV90-8.1 C 8 D	542.7	103.5	83	127650	49	8	6.64	18.2	2209	1530	2x 3"

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-V LV90-1.1 A 12 D	39.2	7.5	55	11550	30	1	0.28	0.8	145	185	2x 3/4"
MISTRAL-V LV90-1.1 B 12 D	45.4	8.7	68	11050	30	1	0.28	0.8	218	205	2x 3/4"
MISTRAL-V LV90-1.1 C 12 D	47.1	9.0	43	10500	30	1	0.28	0.8	291	230	2x 3/4"
MISTRAL-V LV90-2.1 A 12 D	78.6	15.0	52	23100	33	2	0.56	1.7	291	325	2x 1"
MISTRAL-V LV90-2.1 B 12 D	90.8	17.3	61	22100	33	2	0.56	1.7	436	370	2x 1"1/4
MISTRAL-V LV90-2.1 C 12 D	94.2	18.0	43	21050	33	2	0.56	1.7	581	415	2x 1"1/4
MISTRAL-V LV90-3.1 A 12 D	117.8	22.5	50	34700	35	3	0.84	2.5	436	465	2x 1"1/4
MISTRAL-V LV90-3.1 B 12 D	133.8	25.5	31	33150	35	3	0.84	2.5	654	535	2x 1"1/2
MISTRAL-V LV90-3.1 C 12 D	141.2	26.9	40	31550	35	3	0.84	2.5	872	600	2x 1"1/2
MISTRAL-V LV90-4.1 A 12 D	157.1	30.0	49	46250	36	4	1.12	3.3	581	605	2x 1"1/2
MISTRAL-V LV90-4.1 B 12 D	178.3	34.0	30	44150	36	4	1.12	3.3	872	695	2x 1"1/2
MISTRAL-V LV90-4.1 C 12 D	188.3	35.9	40	42100	36	4	1.12	3.3	1162	785	2x 2"
MISTRAL-V LV90-5.1 A 12 D	183.9	35.1	12	57800	37	5	1.40	4.2	726	745	2x 1"1/2
MISTRAL-V LV90-5.1 B 12 D	226.8	43.3	57	55200	37	5	1.40	4.2	1089	860	2x 2"
MISTRAL-V LV90-5.1 C 12 D	235.0	44.8	36	52600	37	5	1.40	4.2	1452	975	2x 2"
MISTRAL-V LV90-6.1 A 12 D	227.6	43.4	20	69400	37	6	1.68	5.0	872	890	2x 1"1/2
MISTRAL-V LV90-6.1 B 12 D	258.6	49.3	12	66250	37	6	1.68	5.0	1307	1025	2x 2"
MISTRAL-V LV90-6.1 C 12 D	284.7	54.3	61	63150	37	6	1.68	5.0	1743	1160	2x 2"
MISTRAL-V LV90-7.1 A 12 D	270.9	51.7	32	80950	38	7	1.96	5.8	1017	1030	2x 2"
MISTRAL-V LV90-7.1 B 12 D	307.7	58.7	20	77300	38	7	1.96	5.8	1525	1185	2x 2"1/2
MISTRAL-V LV90-7.1 C 12 D	319.5	61.0	13	73650	38	7	1.96	5.8	2033	1345	2x 2"1/2
MISTRAL-V LV90-8.1 A 12 D	303.0	57.8	15	90300	38	8	2.24	6.6	1104	1170	2x 2"
MISTRAL-V LV90-8.1 B 12 D	358.6	68.4	67	85050	38	8	2.24	6.6	1657	1350	2x 2"1/2
MISTRAL-V LV90-8.1 C 12 D	366.1	69.8	42	80250	38	8	2.24	6.6	2209	1530	2x 3"

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

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MISTRAL-V V100

Compact dry coolers

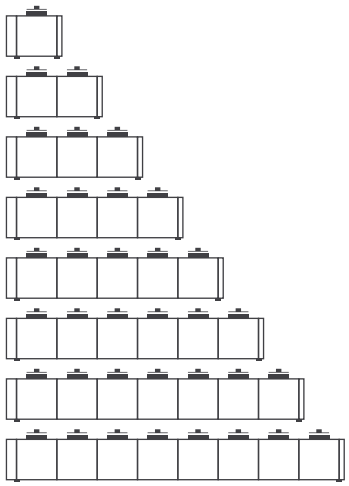
www.kaltra.com

Ø 1000 mm
FAN DIAMETER

49,5 ÷ 691,2 kW
CAPACITY @ DT15K

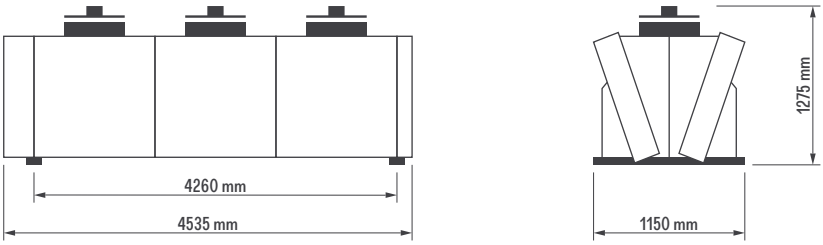
1 ÷ 8
NUMBER OF FANS

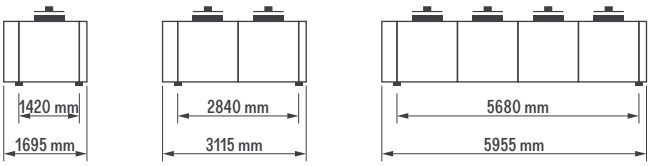
MISTRAL-V V100-1.1
MISTRAL-V V100-2.1
MISTRAL-V V100-3.1
MISTRAL-V V100-4.1
MISTRAL-V V100-5.1
MISTRAL-V V100-6.1
MISTRAL-V V100-7.1
MISTRAL-V V100-8.1

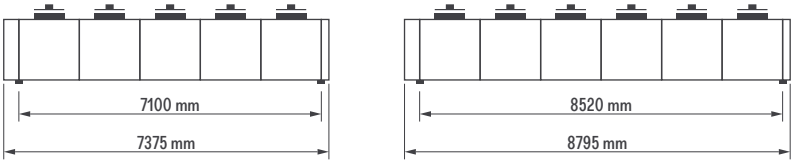


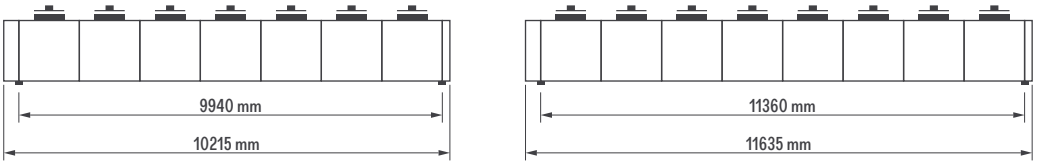
DIMENSIONS

MISTRAL-V V100-1.1/2.1/3.1/4.1/5.1/6.1/7.1/8.1









MODEL CODE

MISTRAL-V	-	V	100	2.1	A	4D	AC

MISTRAL-V	Compact V-shaped dry cooler
-	S = short coil height [not present] = Standard coil height L = Increased coil height
V	V = Dry cooler with single fan row
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-V V100

Compact 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-V V100-1.1 A 6 D	60.2	11.5	40	29100	53	1	2.48	5.6	124	170	2x 3/4"
MISTRAL-V V100-1.1 B 6 D	78.4	15.0	66	27300	53	1	2.48	5.6	186	190	2x 3/4"
MISTRAL-V V100-1.1 C 6 D	87.7	16.7	51	25750	53	1	2.48	5.6	247	205	2x 3/4"
MISTRAL-V V100-2.1 A 6 D	118.6	22.6	29	58200	56	2	4.96	11.3	247	305	2x 1"
MISTRAL-V V100-2.1 B 6 D	157.8	30.1	73	54650	56	2	4.96	11.3	371	340	2x 1"1/4
MISTRAL-V V100-2.1 C 6 D	175.7	33.5	49	51500	56	2	4.96	11.3	495	380	2x 1"1/4
MISTRAL-V V100-3.1 A 6 D	165.2	31.5	11	87250	58	3	7.44	16.9	371	440	2x 1"1/4
MISTRAL-V V100-3.1 B 6 D	236.6	45.2	70	81950	58	3	7.44	16.9	557	500	2x 1"1/2
MISTRAL-V V100-3.1 C 6 D	264.2	50.4	51	77300	58	3	7.44	16.9	743	555	2x 1"1/2
MISTRAL-V V100-4.1 A 6 D	236.8	45.2	27	116350	59	4	9.92	22.5	495	575	2x 1"1/2
MISTRAL-V V100-4.1 B 6 D	296.0	56.5	20	109250	59	4	9.92	22.5	743	655	2x 1"1/2
MISTRAL-V V100-4.1 C 6 D	330.9	63.1	14	103050	59	4	9.92	22.5	990	730	2x 2"
MISTRAL-V V100-5.1 A 6 D	307.8	58.8	54	145450	60	5	12.40	28.2	619	715	2x 1"1/2
MISTRAL-V V100-5.1 B 6 D	384.6	73.4	39	136600	60	5	12.40	28.2	928	810	2x 2"
MISTRAL-V V100-5.1 C 6 D	429.8	82.0	29	128800	60	5	12.40	28.2	1238	905	2x 2"
MISTRAL-V V100-6.1 A 6 D	370.5	70.7	30	168750	60	6	14.88	33.8	706	850	2x 1"1/2
MISTRAL-V V100-6.1 B 6 D	454.4	86.7	21	156250	60	6	14.88	33.8	1059	965	2x 2"
MISTRAL-V V100-6.1 C 6 D	499.4	95.3	15	145650	60	6	14.88	33.8	1411	1080	2x 2"
MISTRAL-V V100-7.1 A 6 D	442.2	84.4	47	196850	61	7	17.36	39.4	823	985	2x 2"
MISTRAL-V V100-7.1 B 6 D	542.2	103.5	33	182250	61	7	17.36	39.4	1235	1120	2x 2"1/2
MISTRAL-V V100-7.1 C 6 D	595.5	113.7	23	169950	61	7	17.36	39.4	1647	1255	2x 2"1/2
MISTRAL-V V100-8.1 A 6 D	514.0	98.1	70	225000	60	8	19.84	45.0	941	1120	2x 2"
MISTRAL-V V100-8.1 B 6 D	629.8	120.2	49	208300	60	8	19.84	45.0	1411	1275	2x 2"1/2
MISTRAL-V V100-8.1 C 6 D	691.2	131.9	35	194200	60	8	19.84	45.0	1882	1430	2x 3"

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-V V100-1.1 A 8 D	49.5	9.4	55	19000	46	1	0.96	2.3	124	170	2x 3/4"
MISTRAL-V V100-1.1 B 8 D	60.7	11.6	73	17800	46	1	0.96	2.3	186	190	2x 3/4"
MISTRAL-V V100-1.1 C 8 D	65.6	12.5	47	16850	46	1	0.96	2.3	247	205	2x 3/4"
MISTRAL-V V100-2.1 A 8 D	99.3	19.0	57	38000	49	2	1.92	4.6	247	305	2x 1"
MISTRAL-V V100-2.1 B 8 D	119.8	22.9	45	35650	49	2	1.92	4.6	371	340	2x 1"1/4
MISTRAL-V V100-2.1 C 8 D	133.0	25.4	72	33650	49	2	1.92	4.6	495	380	2x 1"1/4
MISTRAL-V V100-3.1 A 8 D	148.9	28.6	64	57000	51	3	2.88	6.8	371	440	2x 1"1/4
MISTRAL-V V100-3.1 B 8 D	179.6	34.3	43	53450	51	3	2.88	6.8	557	500	2x 1"1/2
MISTRAL-V V100-3.1 C 8 D	194.2	37.1	30	50500	51	3	2.88	6.8	743	555	2x 1"1/2
MISTRAL-V V100-4.1 A 8 D	187.2	35.7	18	76000	52	4	3.84	9.1	495	575	2x 1"1/2
MISTRAL-V V100-4.1 B 8 D	224.5	42.8	12	71250	52	4	3.84	9.1	743	655	2x 1"1/2
MISTRAL-V V100-4.1 C 8 D	265.9	50.7	69	67350	52	4	3.84	9.1	990	730	2x 2"
MISTRAL-V V100-5.1 A 8 D	243.4	46.5	36	94950	53	5	4.80	11.4	619	715	2x 1"1/2
MISTRAL-V V100-5.1 B 8 D	292.0	55.7	24	89100	53	5	4.80	11.4	928	810	2x 2"
MISTRAL-V V100-5.1 C 8 D	316.0	60.3	17	84150	53	5	4.80	11.4	1238	905	2x 2"
MISTRAL-V V100-6.1 A 8 D	289.2	55.2	19	110050	53	6	5.76	13.7	706	850	2x 1"1/2
MISTRAL-V V100-6.1 B 8 D	341.1	65.1	13	102050	53	6	5.76	13.7	1059	965	2x 2"
MISTRAL-V V100-6.1 C 8 D	389.8	74.4	66	95400	53	6	5.76	13.7	1411	1080	2x 2"
MISTRAL-V V100-7.1 A 8 D	345.3	65.9	30	128400	54	7	6.72	16.0	823	985	2x 2"
MISTRAL-V V100-7.1 B 8 D	406.9	77.7	20	119050	54	7	6.72	16.0	1235	1120	2x 2"1/2
MISTRAL-V V100-7.1 C 8 D	433.4	82.7	13	111300	54	7	6.72	16.0	1647	1255	2x 2"1/2
MISTRAL-V V100-8.1 A 8 D	401.2	76.6	45	146750	54	8	7.68	18.2	941	1120	2x 2"
MISTRAL-V V100-8.1 B 8 D	472.6	90.2	30	136050	54	8	7.68	18.2	1411	1275	2x 2"1/2
MISTRAL-V V100-8.1 C 8 D	503.0	95.9	20	127200	54	8	7.68	18.2	1882	1430	2x 3"

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

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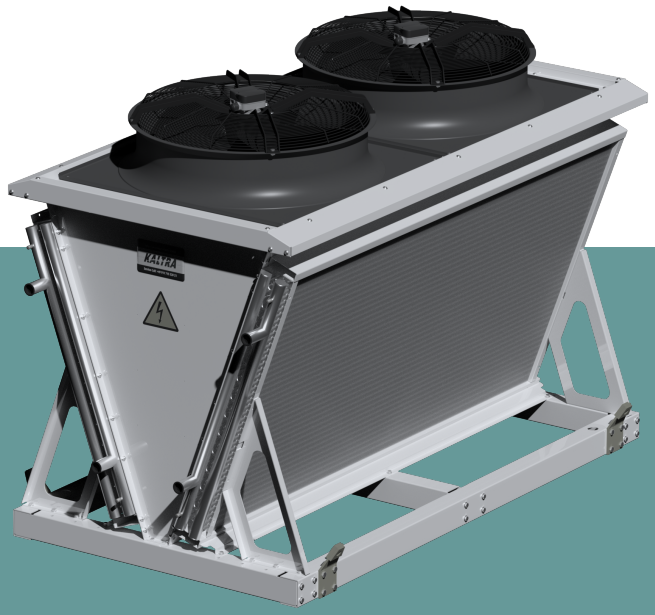
MISTRAL-V

Compact dry coolers



SELECTION GUIDE

June 2020

KALTRA

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