

V-SHAPED DRY COOLER



LENNOX participates in the ECP programme for HE.
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V-KING

- Very powerful, even with a smaller footprint than a flat model
- Many possible configurations (in line or parallel)
- Reliable capacity

50 - 2000 kW

V-shaped dry cooler

V-KING

50 → 2000 kW*

Main applications

- Air conditioning, free cooling, cogeneration, power plants, process, industry, with a maximum inlet temperature of 80°C.



DESCRIPTION :

- Large range :
 - From L2 (in line, 2 fans) to L10
 - From P4(parallel, 4 fans) to P20



In line configuration



Parallel configuration

COIL :

- Staggered copper tubes and embossed aluminum fins for optimal heat exchange.
- Fin spacing of 1,9 mm to 3 mm, depending on application and fouling constraints.
- Stacked HT/LT circuits possible

VENTILATION :

- **Standard** : 400V/3/50Hz (class F) with external rotor, two-speed (delta-star connection)
- **H class** : 400V/3/50Hz, two-speed (delta-star connection)
- **EC** : motor fan units with electronic switching to reduce energy consumption
- Wiring path inside the product

CASING:

- Self-supporting, highly rigid metal frame, with horizontal feet every 2 fans
- Magnesium-zinc material 20 mm or 30/10 mm thick
- Epoxy painted structure for maximum corrosion resistance

Ventilation

V-KING		POWER					SILENCE					
		PN	PU	PM	PU	PU EC	SN	SN	SU	SE	EC motor	
										SE EC	SU EC	
Air temperature		<70°C / 80°C	<60°C	<40°C / 60°C	<80°C	60°C	<80°C	<80°C	<80°C	<80°C	<60°C	<60°C
Ø		800	910	910	910	910	800	910	800	800	800	800
Number of poles		06P	06P	04P	06P	EC	08P	08P	12 -16P	12P	-	-
400V / 3 / 50 Hz		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Class		F	F	F	H	F	F	H	F	F	F	F
DELTA (D)	rpm	880	885	1230	890	250-1195	680	650	-	430	250-1020	250-735
	dB(A)	82	89	95	85	91	73	75	-	68	88	78
STAR (Y)	rpm	670	685	900	730	-	540	480	255 - 330	-	-	-
	dB(A)	75	81	87	80	-	69	68	48 - 61	-	-	-

* Air inlet temperature : 25°C / Fluid : water / Maximum pressure drop : 10 m of water column / Fluid inlet temperature : 40°C / Fluid outlet temperature : 35°C

Options

Casing :	
RAL	Special colour
PAV	Anti-vibration pads
Ventilation:	
M60	Motor fan 400 V/3/60Hz
MTH	Motors equipped with a thermal protection
IRP	Motor proximity rotary switch
IRP G	General proximity rotary switch
C2V	2-speed factory wired in the switching box
SCU	Unwired fans (to be specified while ordering)
EC	EC motor
RDB RNR	Noise reduction (Diffusor/AxiTop)

Coil :	
VEX	Expansion vessel
MCI	Multi-circuits HT/LT
BCB	Flange against flange
BAE	Protection of the fin
BXT	Blygold Polual XT protection of fins

Control options

FC/FI NEOSTAR and V-KING ranges

AC MOTOR

Wiring and power	
SCU	Without factory wiring
APC *	Power wired on connections (no protection integrated)
Wiring and protection	
CMP	IP 54 Motor protection cabinet, With one contactor /fan, one general fault report, one main switch
Control / Simple control (cascade ON/OFF)	
RT1	CMP included A thermostatic cascade control in a IP54 electrical box, allowing management of several capacity steps : 1 to 4 capacity steps : . Management of 2 circuits 4 to 10 capacity steps : . Possible to program a day/night operation . Integrated clock . Management of floating HP
Advanced control (variation)	
RT2	CMP included / Voltage variation Control IP54 box
RT3	CMP included / frequency variation Control IP 54 boxe

EC MOTOR

Wiring and power	
SCM	Without factory wiring
CSB *	Power wired on connections
CCE	Power wired in boxe and protection for each stage included (for L each fan, for P every 2 fans)
Simple control (cascade ON/OFF)	
SE1*	Direct signal toward fan and signal duplicated from one fan to another
SE3	Direct signal to master fan and duplication of signal for slaves fans
Advanced control	
CE1..3	Electronic regulator
Additional functions	
WMA	Max speed pre set
MJN	Max speed for night
ADR	Fan bus

* : If no other choice selected while ordering, the unit with EC motor will be delivered with CSB connection and SE1 control.