



Serie 2000KBV
2000KBV Series



SERIE 2000KBV

2000KBV Series

APPLICAZIONE

APPLICATION

Grazie all'ampia gamma di combinazioni, gli scambiatori della serie 2000KBV si prestano come la soluzione di raffreddamento ottimale per svariate applicazioni sia mobili che industriali quali:

Thanks to the wide range of combinations, the 2000KBV series heat exchangers are the optimal cooling solution for a wide range of mobile and industrial applications such as:



Industria agricola e forestale.
Gru mobili e fisse.
Veicoli industriali.
Veicoli municipali.
Impianti oleodinamici.
Macchine utensili.
Altro su richiesta.

Agriculture and forestry.
Mobile and stationary cranes.
Industrial vehicles.
Municipal vehicles.
Hydraulic systems.
Machine tools.
Others on request.



Grazie alla sua valvola di bypass integrata, il prodotto può essere preservato da picchi di pressione causati da condizioni di elevata viscosità (es. partenze a freddo).

Thanks to the incorporated bypass valve, the product can be protected from high viscosity condition (ex. cold start).





Modulo richiesta dati

Sheet for cooler selection

CLIENTE COMPANY	
RICHIEDENTE NAME	

TIPOLOGIA FLUIDO FLUID TYPE		
PORTATA FLOW RATE	lpm	
POTENZA INSTALLATA INSTALLED POWER	kW	
POTENZA DA DISSIPARE POWER TO BE DISSIPATED	kW	
TEMPERATURA INGRESSO INLET TEMPERATURE	°C	
TEMPERATURA ARIA MAX MAX AMBIENT TEMPERATURE	°C	
PRESSIONE DI LAVORO WORKING PRESSURE	bar	

TIPO DI VENTILAZIONE TYPE OF FAN UNIT		
CC DC	PREDISPOSTO MOTORE IDRAULICO PREPARED FOR HYDRAULIC MOTOR	CA AC
12V	GR.2	MONOFASE 230V SINGLEPHASE 230V
24V		TRIFASE 230/400V 265/460V THREEPHASE 230/400V 265/460V
		TENSIONE SPECIALE SPECIAL VOLTAGE
		50 Hz 60 Hz



Denominazione codice prodotto

Ordering code

2W

24

03

2

01

TARATURA BY-PASS

BY-PASS SETTING

MODELLO COOLER MODEL

24 (MG AIR 2024KBV)

TIPO DI MOTORIZZAZIONE FAN MOTOR TYPE

- 01 AC 230V 50 Hz
- 03 AC 230-400V-50Hz / AC 230-400V-60Hz
- 04 AC 230-400V-50Hz (B14) / AC 265-460V- 60Hz (B14)
- 12 DC 12V
- 24 DC 24V
- 56 Pred. per mot. idr. gr. 2 Prep. for hydr. mot. gr. 2

TERMOSTATI THERMOSTATS

- 0 Senza termostato Whitout thermostat
- 1 Termostato fisso Fixed thermostat 40-28°
- 2 Termostato fisso Fixed thermostat 50-38°
- 3 Termostato fisso Fixed thermostat 60-48°
- 4 Termostato fisso Fixed thermostat 70-58°
- 5 Termostato fisso Fixed thermostat 80-68°
- 6 Termostato fisso Fixed thermostat 90-78°
- 8 Termostato regolabile
Adjustable thermostat 0-90° (TC2)
- 9 Termostato regolabile collegato
Connected adjustable thermostat 0-120° (TR2)

FLUSSO DI VENTILAZIONE AIR FLOW DIRECTION

- 01 Aspirante Suction air flow
- 02 Soffiante Blowing air flow

Modello - Codice prodotto

Cooler model - Code

Taratura BY-PASS

BY-PASS Setting

Taratura Setting	Codice Code
1.5 bar *	2W *
3.0 bar	3W
5.0 bar	5W
*Standard	

Serie KBV

2000KBV Series

Modello Model	Codice Code
2015KBV	15
2020KBV	20
2024KBV	24
2030KBV	30
2040KBV	40
2050KBV	50

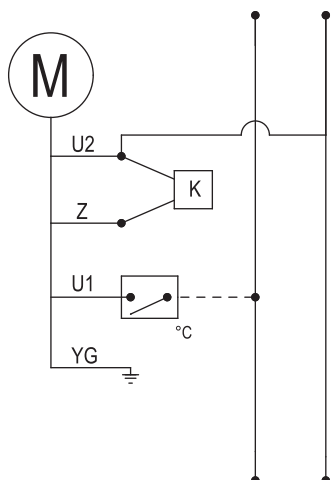




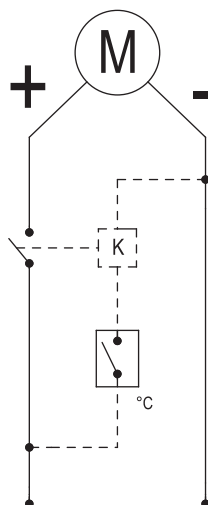
Collegamenti elettrici

Electric Wiring

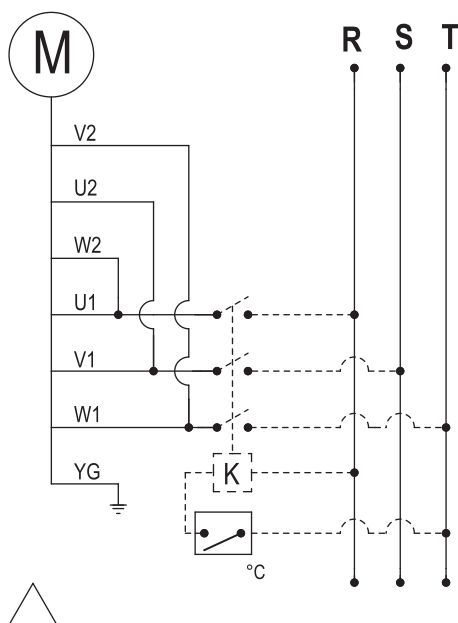
COLLEGAMENTO ELETTRICO 230V MON. AC
230V AC 1PH. ELECTRIC WIRING



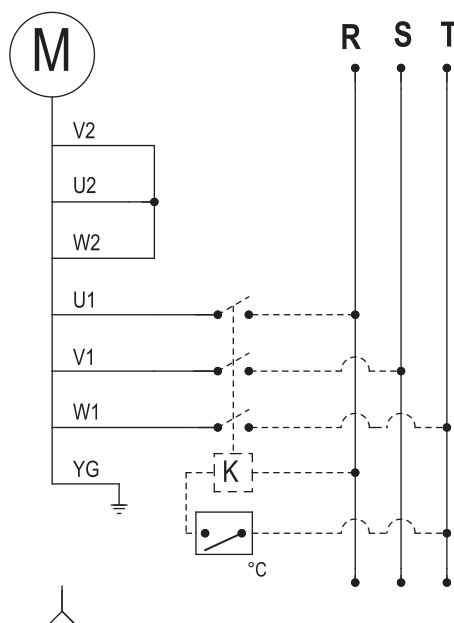
COLLEGAMENTO ELETTRICO 12-24V DC
12-24V DC ELECTRIC WIRING



COLLEGAMENTO ELETTRICO 230V AC TRIF.
230V AC 3PH. ELECTRIC WIRING



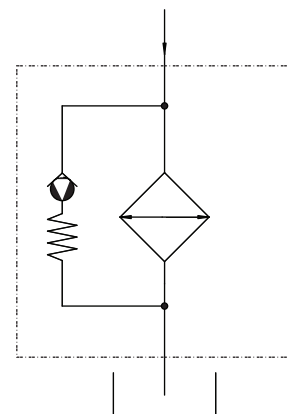
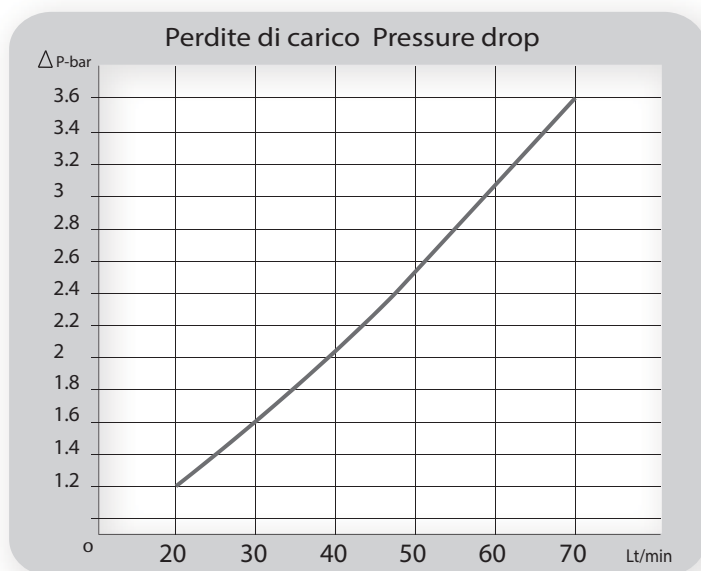
COLLEGAMENTO ELETTRICO 400/460V AC TRIF.
400/460V AC THREEPHASE ELECTRIC WIRING



Dati tecnici valvola by-pass Technical data by-pass valve - (1.5 bar)

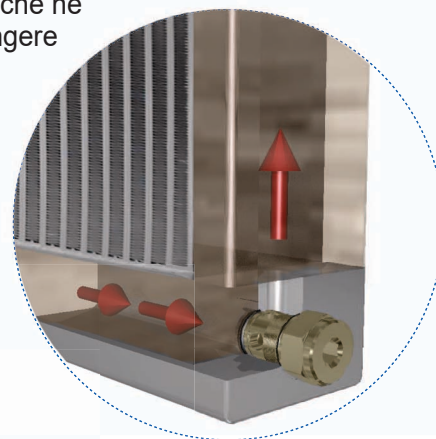
Valvola cartuccia tipo 2 / Cartridge valve type 2 - (1.5 bar)

Schema idraulico Hydraulic circuit



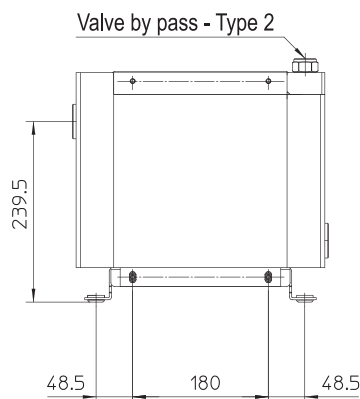
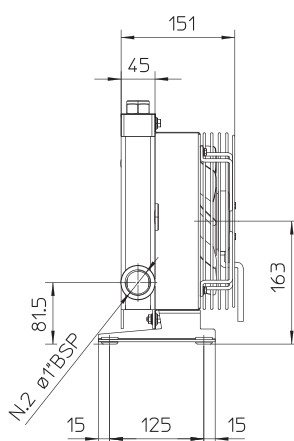
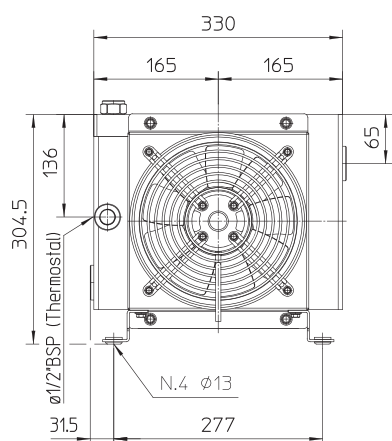
Gli scambiatori della serie KBV nascono dalle esigenze applicative espresse dal mercato. Punto di forza di questi prodotti é rappresentato dal by-pass integrato che ne amplifica la semplicità d'uso, eliminando la necessità di dovere aggiungere da parte del cliente una valvola esterna.

KBV Series was born to answer the needs of the market. The main characteristic of this product is the integrated by-pass valve that simplify their employ and avoid the customers to add an external and independent valve.

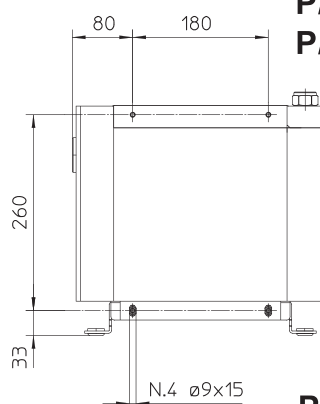
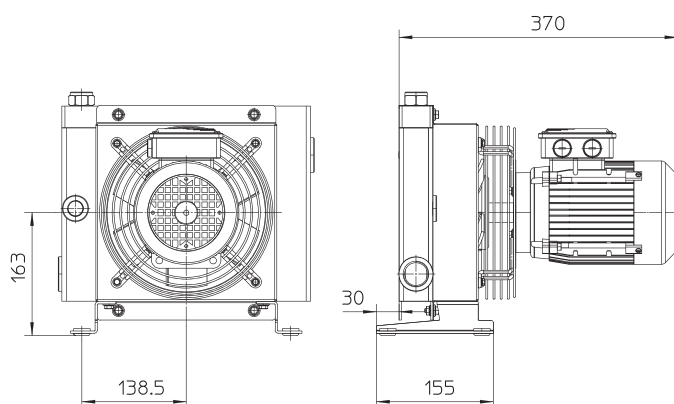




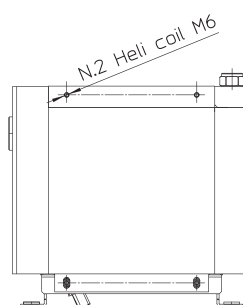
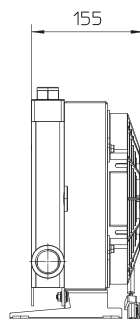
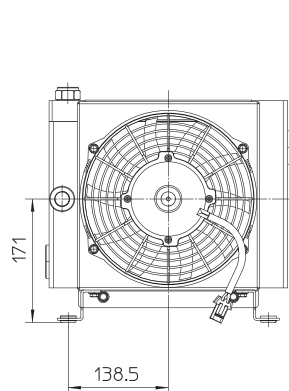
2000KBV MG 2015KBV



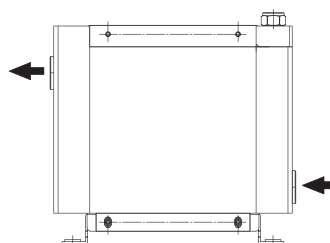
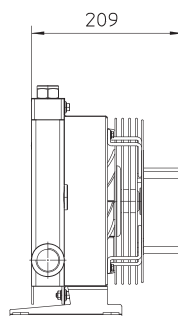
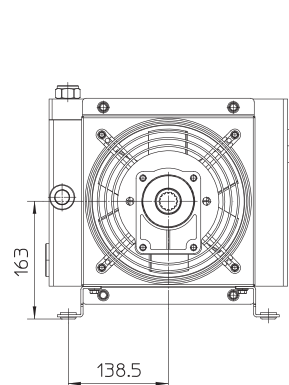
**P/N 2W1501###
P/N 2W1503###**



P/N 2W1504###



**P/N 2W1512###
P/N 2W1524###**



P/N 2W1556###

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Overall dimensions and technical characteristic are not binding

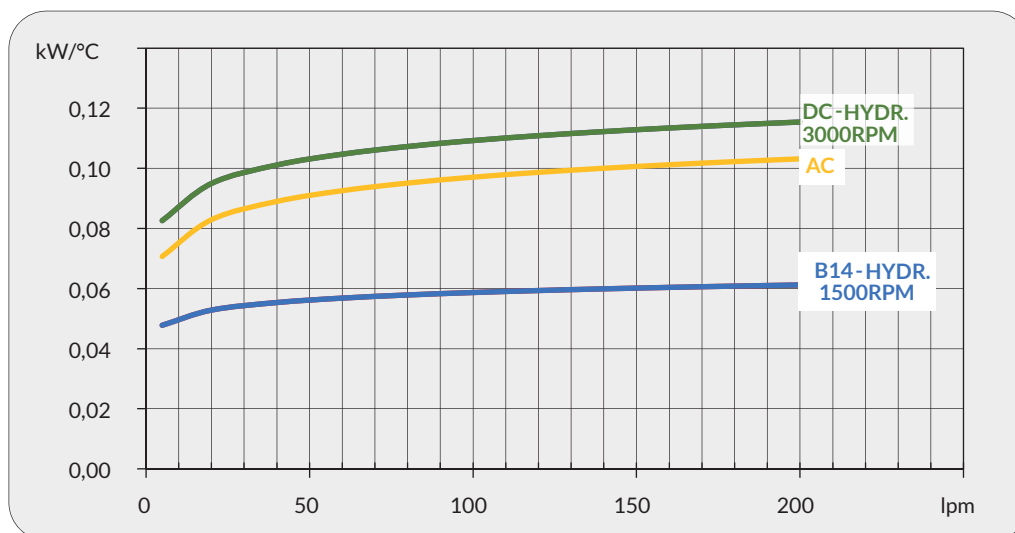


Dati tecnici Technical Data

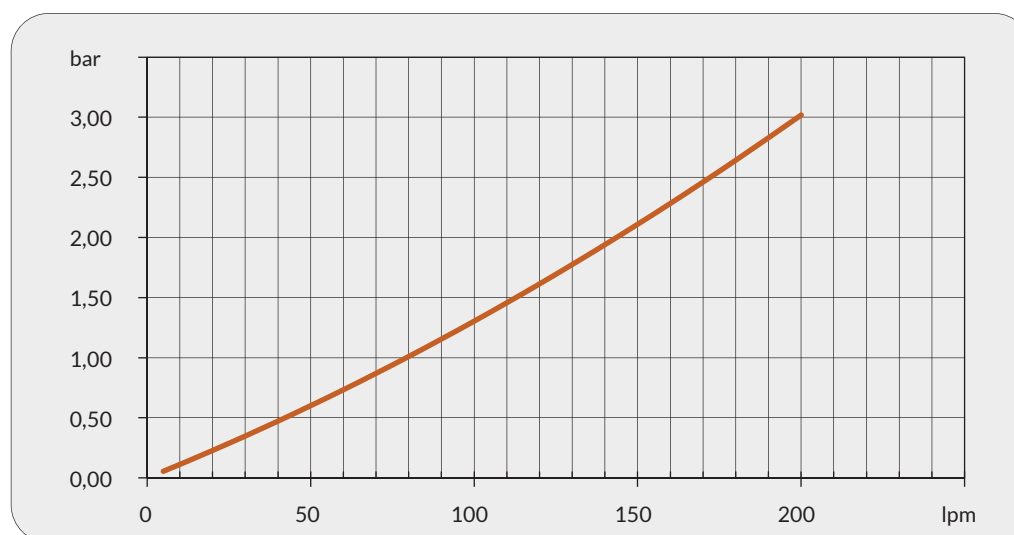
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/h)	IP	lt	kg
2W1501###	230 AC	50/60	0,050/0,061	0,24/0,28	2740/3120	200	68	700	44	0,5	7
2W1503###	230-400 AC 265-400 AC	50 60	0,068 0,070	0,29-0,17 0,23-0,13	2500 2650	200	69	720	44	0,5	7
2W1504###	230-400 AC B14 265-460 AC B14	50 60	0,25 0,30	1,7- 1 1,7- 1	1350 1620	200	61	415	55	0,5	10
2W1512###	12 DC	/	0,08	6,4	2770	225	72	790	67	0,5	6,5
2W1524###	24 DC	/	0,09	3,9	2900	225	73	865	67	0,5	6,5
2W1556###	Prepared for Gr.2 hydraulic motor					200			/	0,5	6

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)

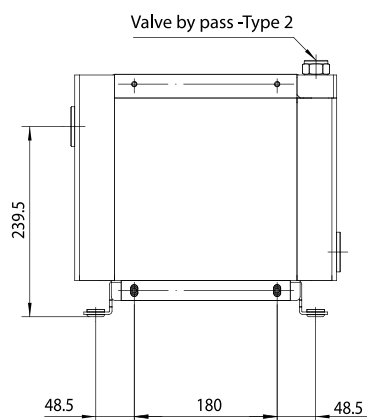
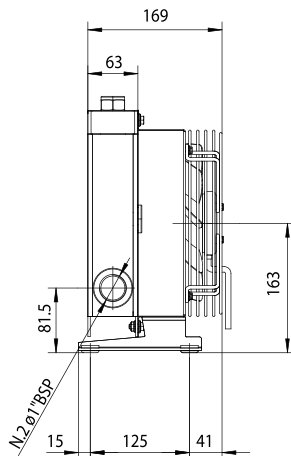
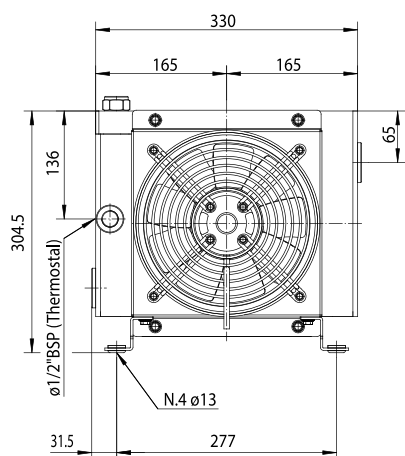


Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

cSt	10	15	20	30	40	50	60	80	100	200	300
F	0,5	0,65	0,77	1	1,2	1,4	1,6	1,9	2,1	3,3	4,3

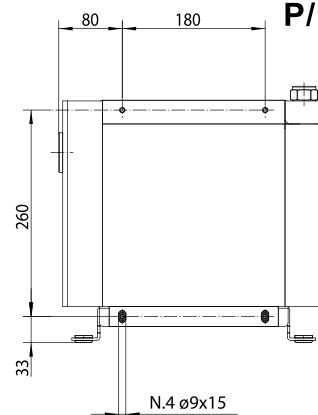
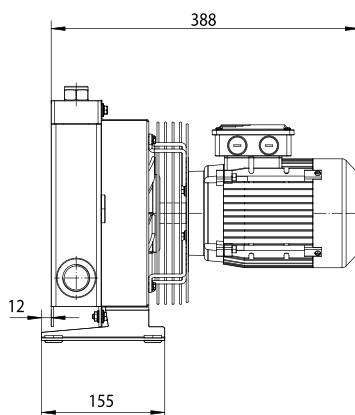
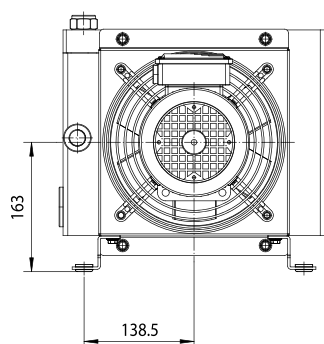


2000KBV MG 2020KBV

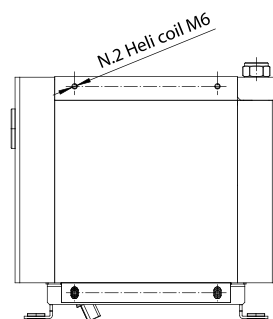
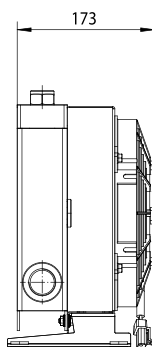
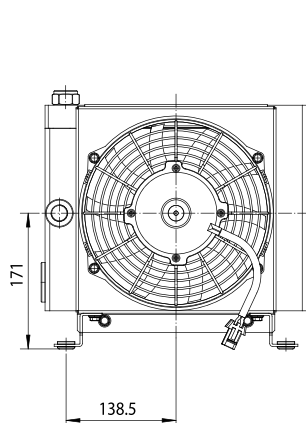


P/N 2W2001###

P/N 2W2003###

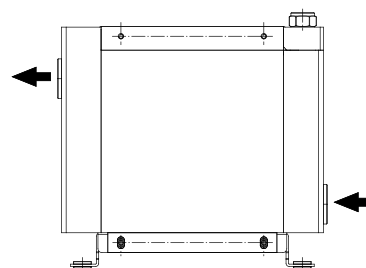
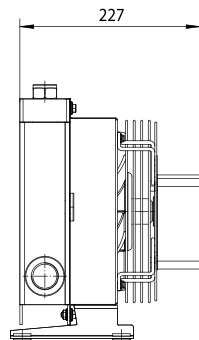
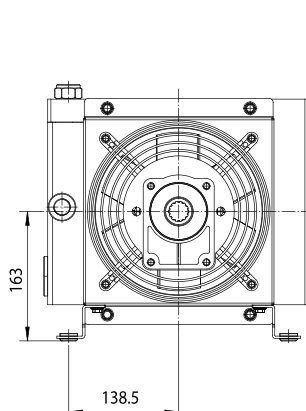


P/N 2W2004###



P/N 2W2012###

P/N 2W2024###



P/N 2W2056###

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Overall dimensions and technical characteristic are not binding

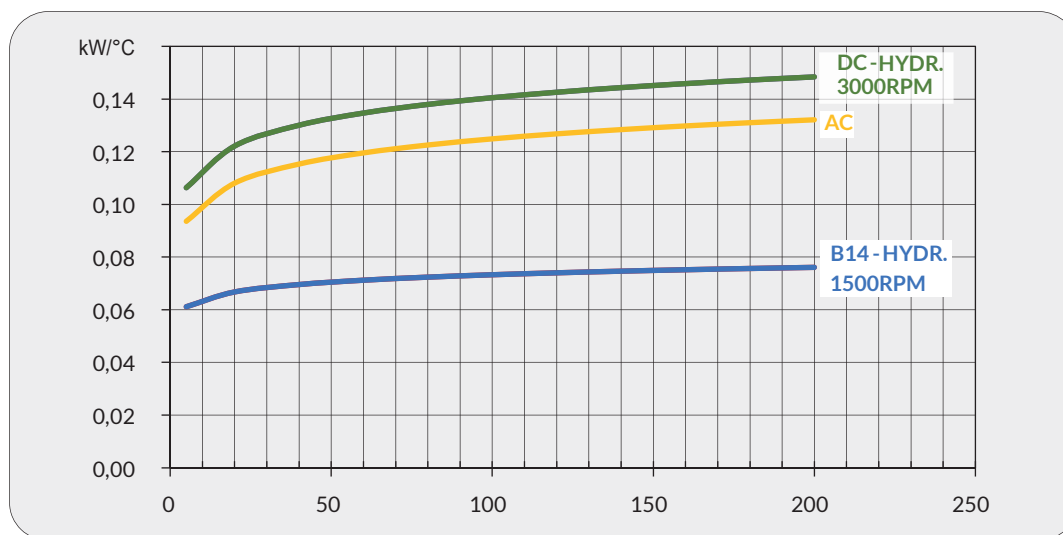


Dati tecnici Technical Data

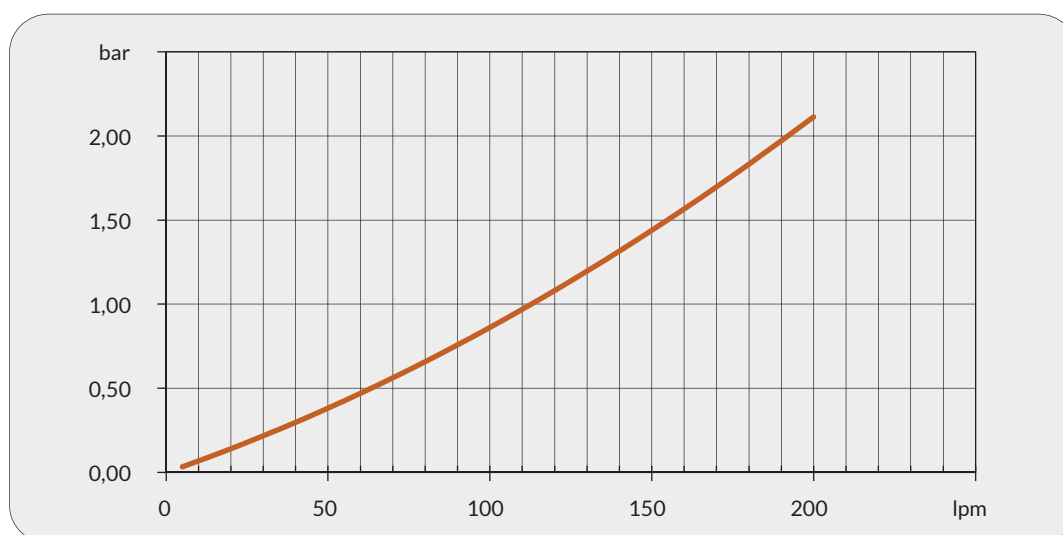
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/h)	IP	lt	kg
2W2001###	230 AC	50/60	0,050/0,061	0,24/0,28	2740/3120	200	68	675	44	0,7	8
2W2003###	230-400 AC 265-400 AC	50 60	0,068 0,070	0,29 - 0,17 0,23 - 0,13	2500 2650	200	68	645	44	0,7	8
2W2004###	230-400 AC B14 265-460 AC B14	50 60	0,25 0,30	1,7- 1 1,7- 1	1350 1620	200	64	390	55	0,7	11
2W2012###	12 DC	/	0,08	6,4	2770	225	72	720	67	0,7	7
2W2024###	24 DC	/	0,09	3,9	2900	225	72	750	67	0,7	7
2W2056###	Prepared for Gr.2 hydraulic motor					200			/	0,7	7

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)

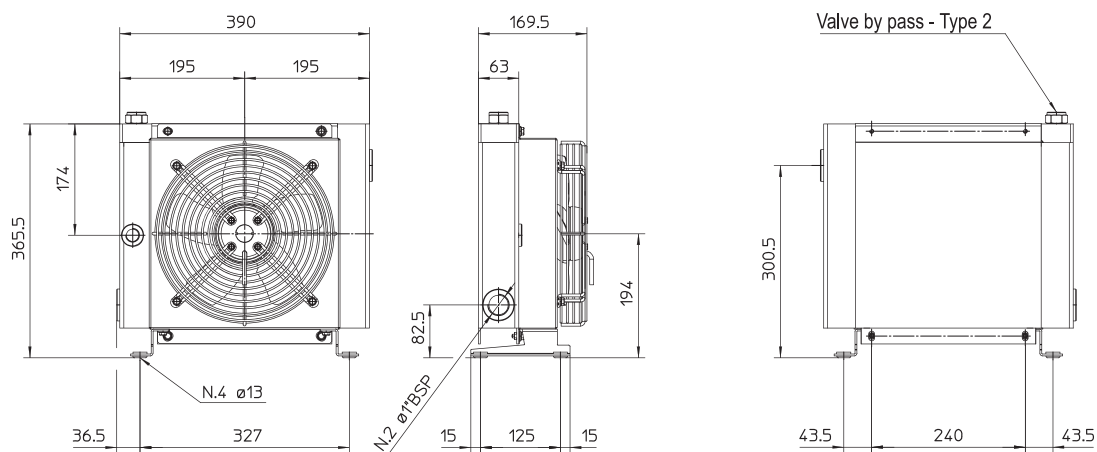


Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

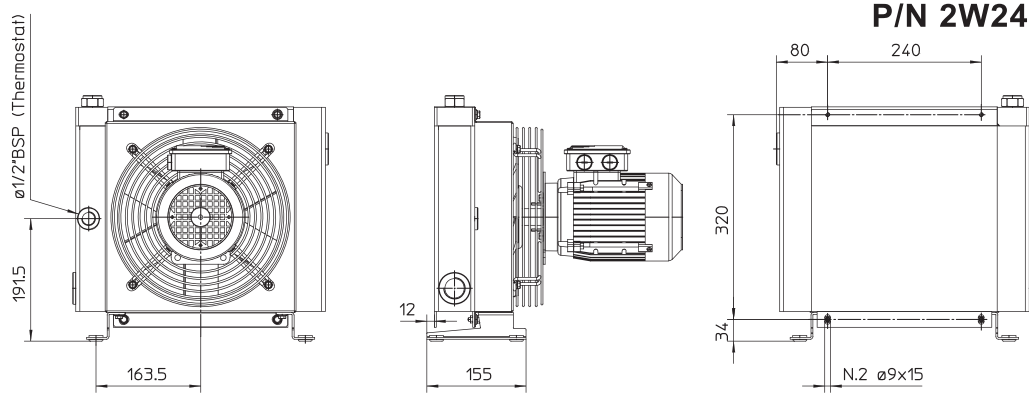
cSt	10	15	20	30	40	50	60	80	100	200	300
F	0,5	0,65	0,77	1	1,2	1,4	1,6	1,9	2,1	3,3	4,3



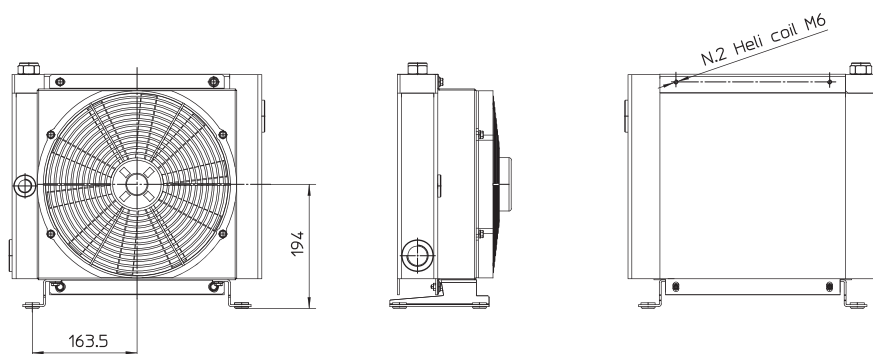
2000KBV MG 2024KBV



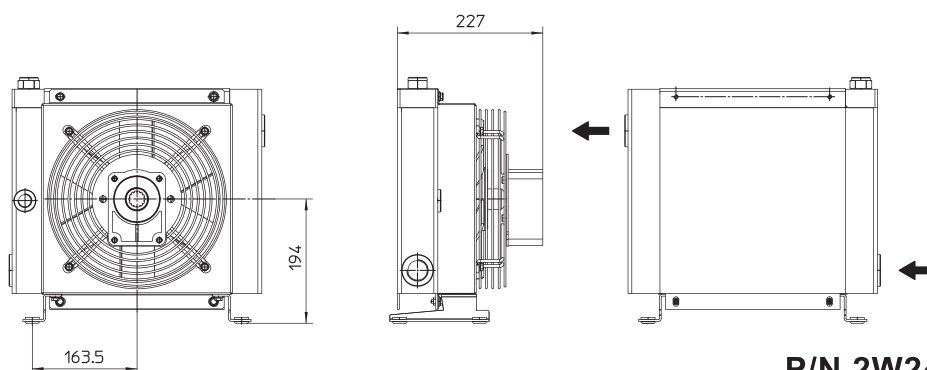
P/N 2W2401###
P/N 2W2403###



P/N 2W2404###



P/N 2W2412###
P/N 2W2424###



P/N 2W2456###

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Overall dimensions and technical characteristic are not binding

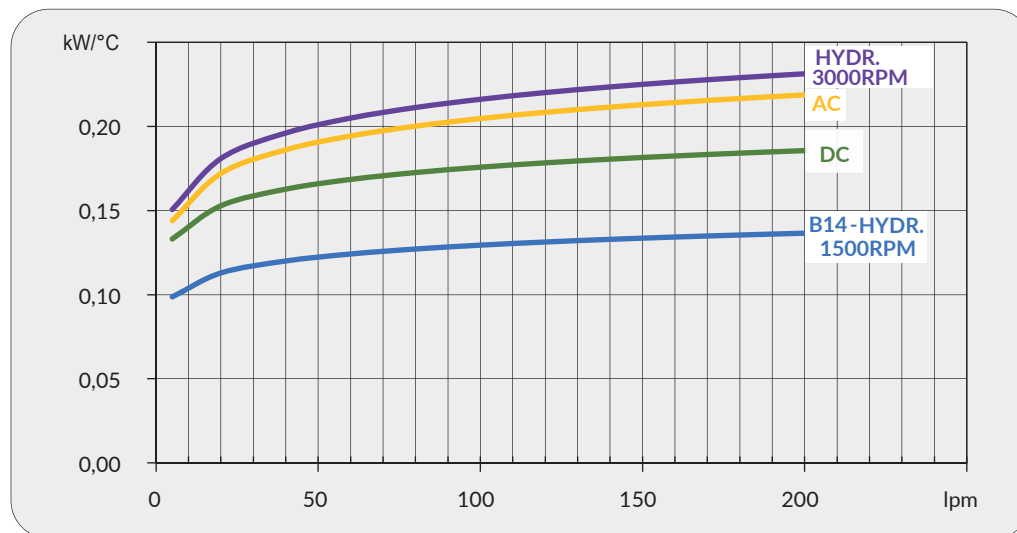


Dati tecnici Technical Data

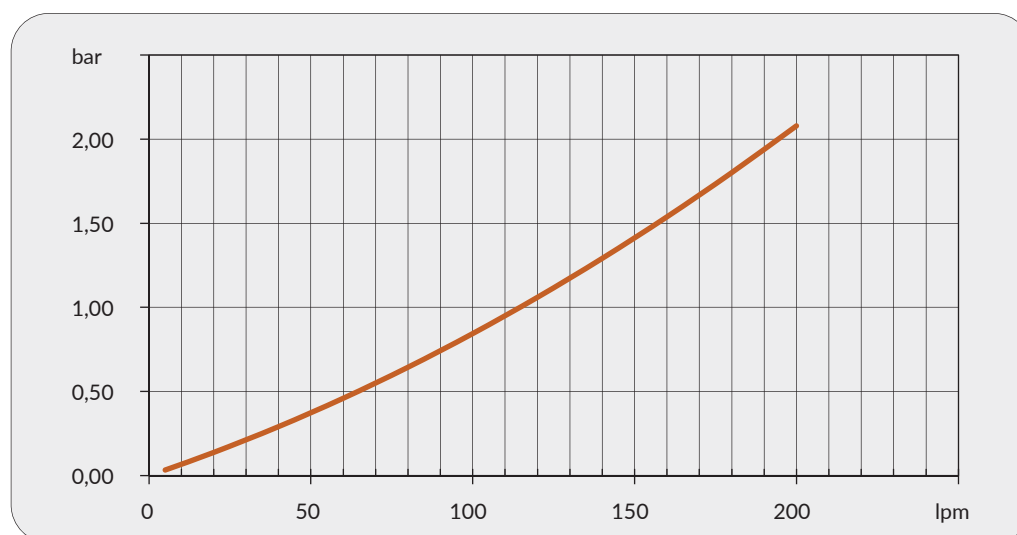
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	lt	kg
2W2401###	230 AC	50/60	0,115/0,150	0,51/0,66	2450/2600	250	72	1350	44	1	11
2W2403###	230-400 AC 265-400 AC	50 60	0,105 0,145	0,33-0,19 0,39-0,23	2600 2900	250	72	1300	44	1	11
2W2404###	230-400 AC B14 265-460 AC B14	50 60	0,25 0,30	1,7- 1 1,7- 1	1350 1620	250	64	1000	55	1	16
2W2412###	12 DC	/	0,09	7,5	2710	280	72	950	67	1	10
2W2424###	24 DC	/	0,10	4,3	2765	280	74	1030	67	1	10
2W2456###	Prepared for Gr.2 hydraulic motor					250			/	1	10

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Diagramma rendimento Performance diagram

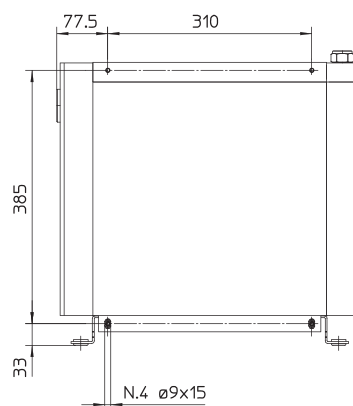
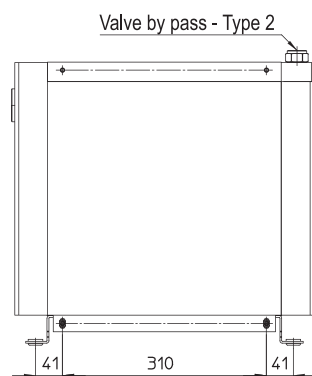
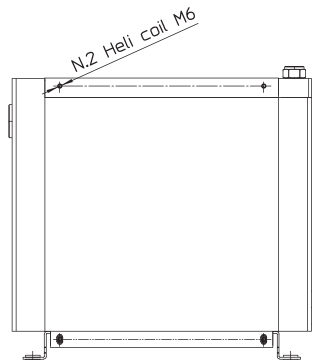


Perdite di carico Pressure drop (@30cSt)



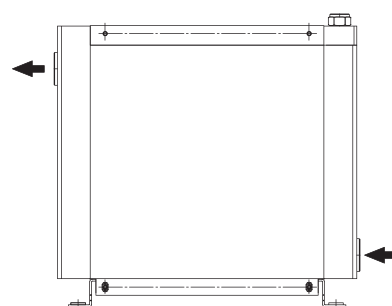
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

cSt	10	15	20	30	40	50	60	80	100	200	300
F	0,5	0,65	0,77	1	1,2	1,4	1,6	1,9	2,1	3,3	4,3

[illegible]

Technical drawing of the ECH 6000 unit, showing front and side views with dimensions.

- Front View:** Shows a square unit with a circular fan grille. The overall width is 196 mm and the height is 225 mm.
- Side View:** Shows the profile of the unit. The depth (thickness) is 234 mm.



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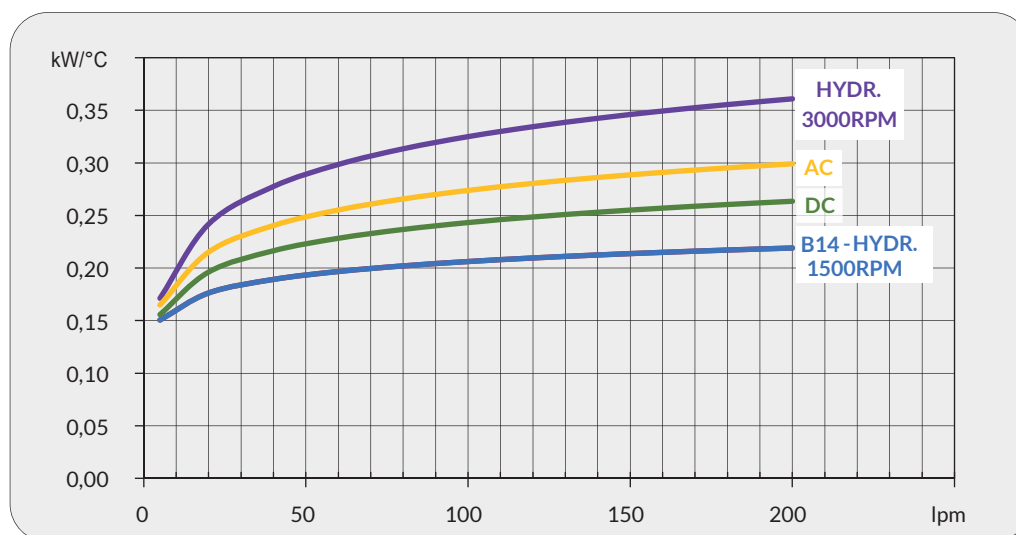


Dati tecnici Technical Data

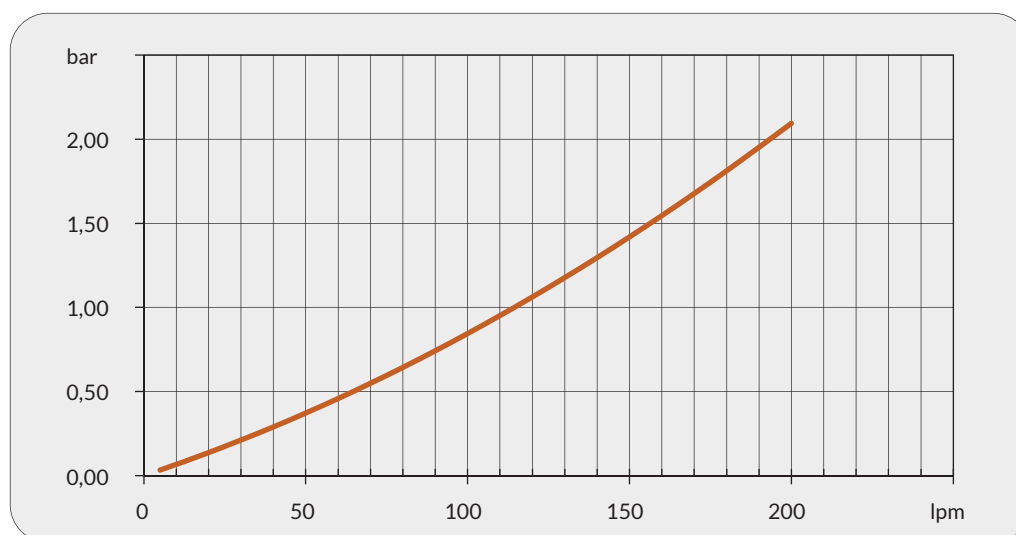
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/h)	IP	lt	kg
2W3001###	230 AC	50/60	0,23/0,35	1,1/1,55	2700/3000	300	78	2220	44	1,6	15
2W3003###	230-400 AC 265-400 AC	50 60	0,21 0,30	0,62-0,36 0,84-0,48	2580 2750	300	76	2500	44	1,6	15
2W3004###	230-400 AC 265-460 AC	50 60	0,37 0,44	2,2- 1,25 2,2- 1,25	1370 1640	300	70	1850	55	1,6	20
2W3012###	12 DC	/	0,16	13,3	2660	305	80	1675	67	1,6	14
2W3024###	24 DC	/	0,18	7,4	2870	305	83	1880	67	1,6	14
2W3056###	Prepared for Gr.2 hydraulic motor					300			/	1,6	15

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)

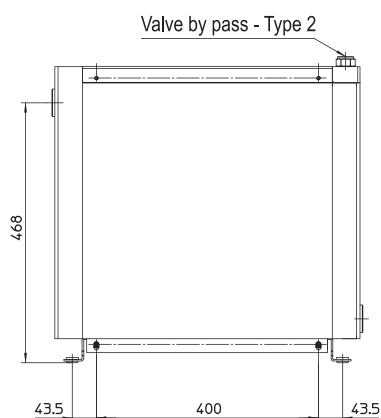
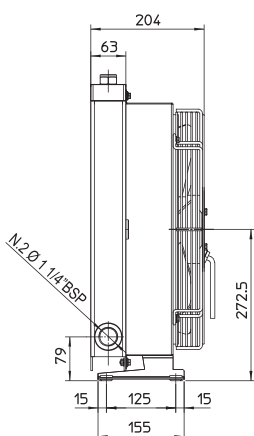
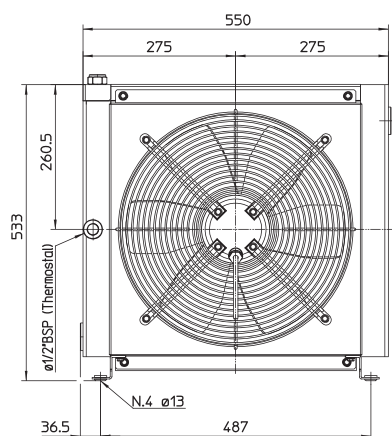


Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

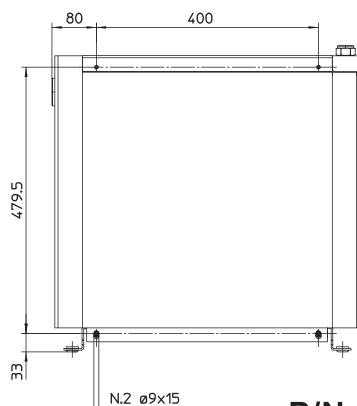
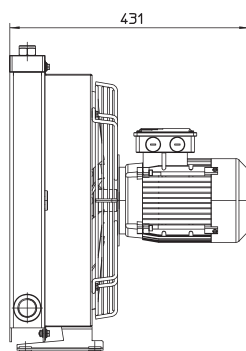
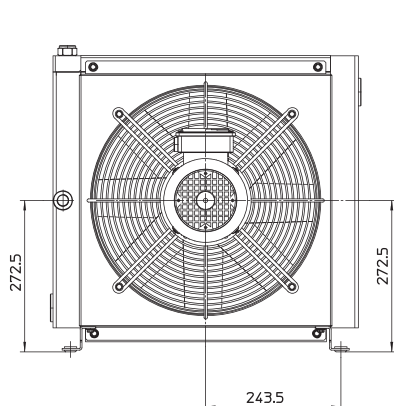
cSt	10	15	20	30	40	50	60	80	100	200	300
F	0,5	0,65	0,77	1	1,2	1,4	1,6	1,9	2,1	3,3	4,3



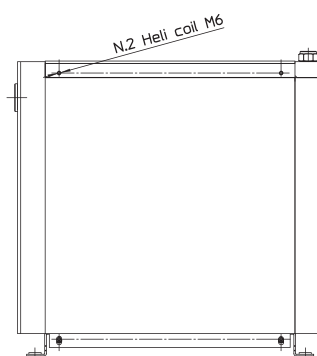
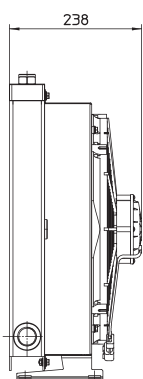
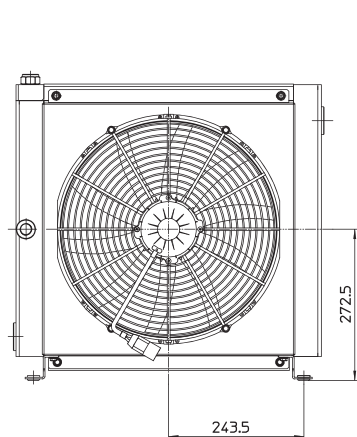
2000KBV MG 2040KBV



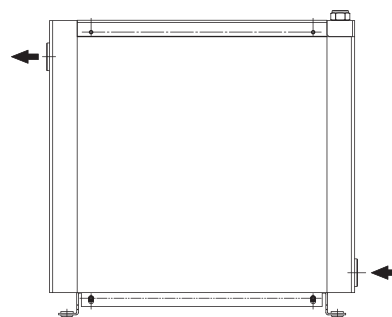
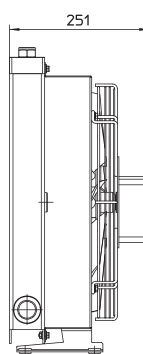
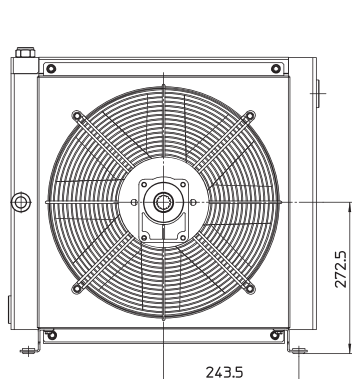
**P/N 2W4001###
P/N 2W4003###**



P/N 2W4004###



**P/N 2W4012###
P/N 2W4024###**



P/N 2W4056###

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Overall dimensions and technical characteristic are not binding

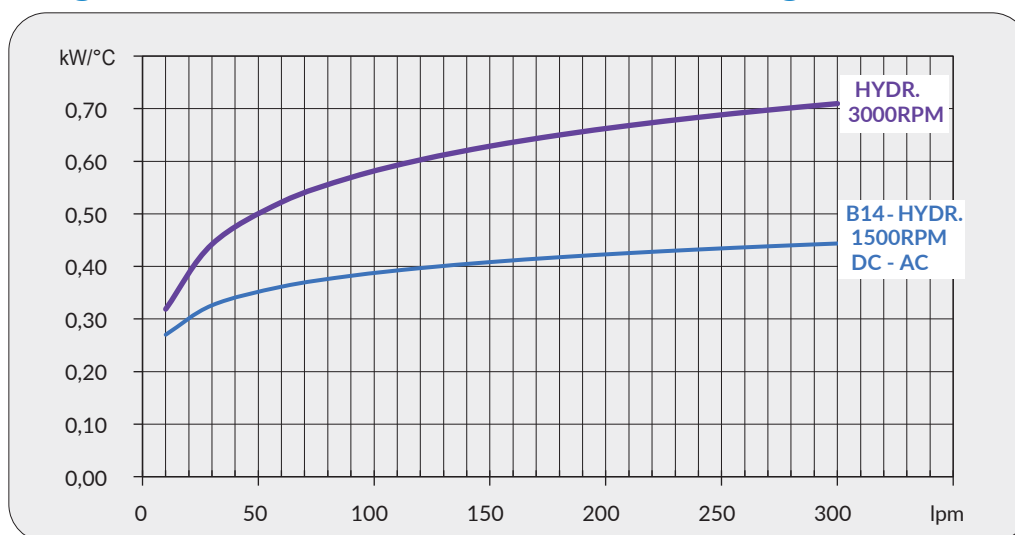


Dati tecnici Technical Data

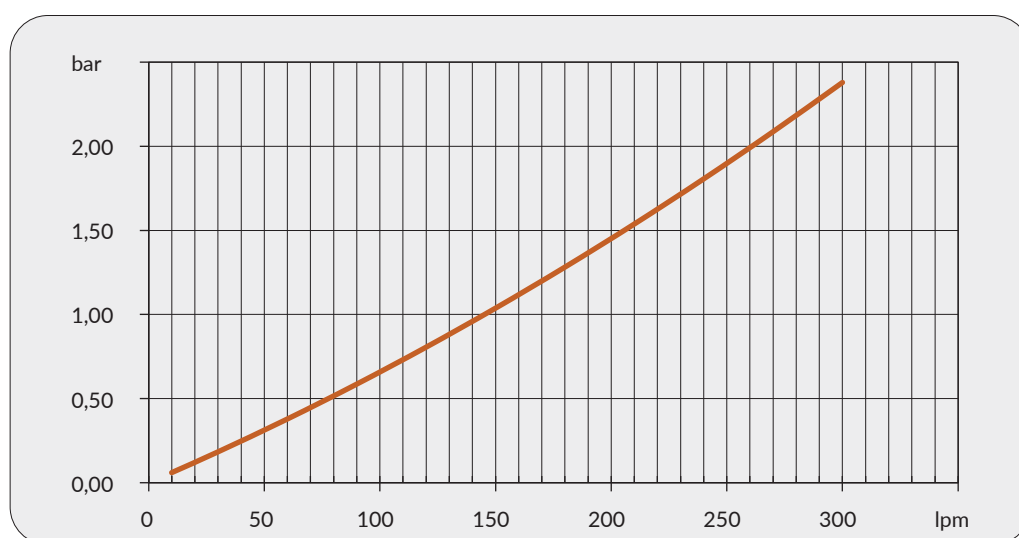
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³ / h)	IP	lt	kg
2W4001###	230 AC	50	0,16/0,24	0,73/1,06	1430/1700	400	71	3200	54	2,7	21
2W4003###	230-400 AC	50	0,135	0,76/0,44	1450	400	71	3200	54	2,7	21
	265-400 AC	60	0,185	0,68/0,39	1690						
2W4004###	230-400 AC B14	50	0,55	2,9- 1,7	1320	400	77	3740	55	2,7	25
	265-460 AC B14	60	0,63	2,9- 1,7	1690						
2W4012###	12 DC	/	0,22	19,2	2310	385	76	2770	67	2,7	20
2W4024###	24 DC	/	0,23	9,3	2380	385	79	2910	67	2,7	20
2W4056###	Prepared for Gr.2 hydraulic motor					400			/	2,7	19

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)

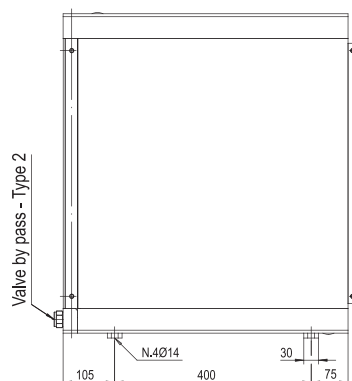
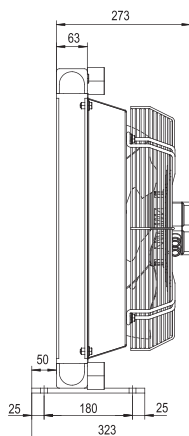
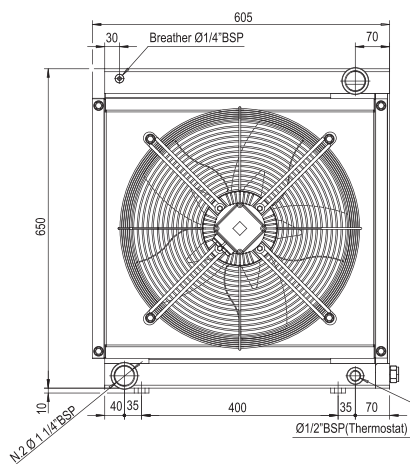


Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

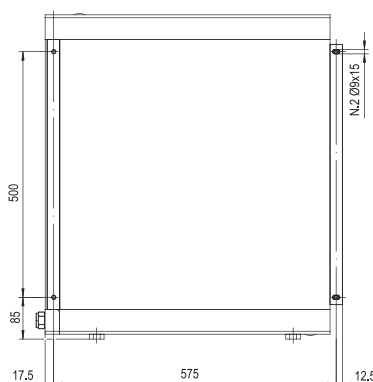
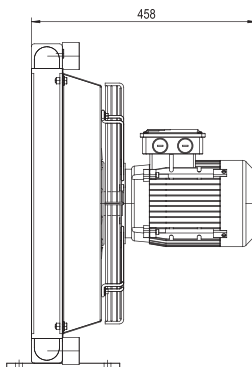
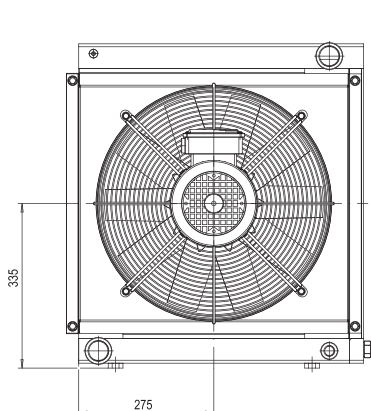
cSt	10	15	20	30	40	50	60	80	100	200	300
F	0,5	0,65	0,77	1	1,2	1,4	1,6	1,9	2,1	3,3	4,3



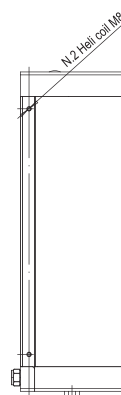
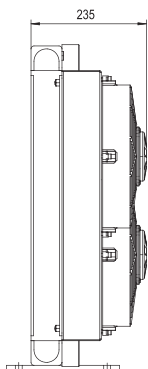
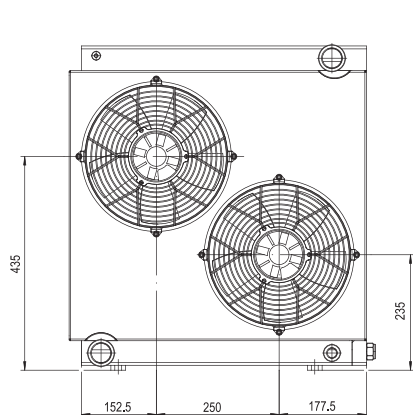
2000KBV MG 2050KBV



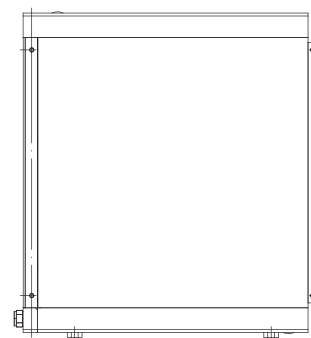
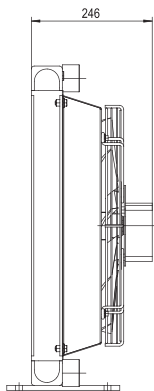
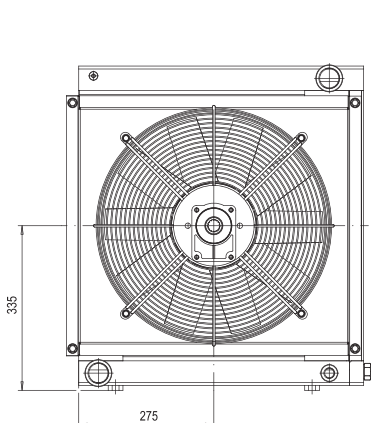
P/N 2W5003###



P/N 2W5004###



**P/N 2W5012###
P/N 2W5024###**



P/N 2W5056###

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding



Dati tecnici Technical Data

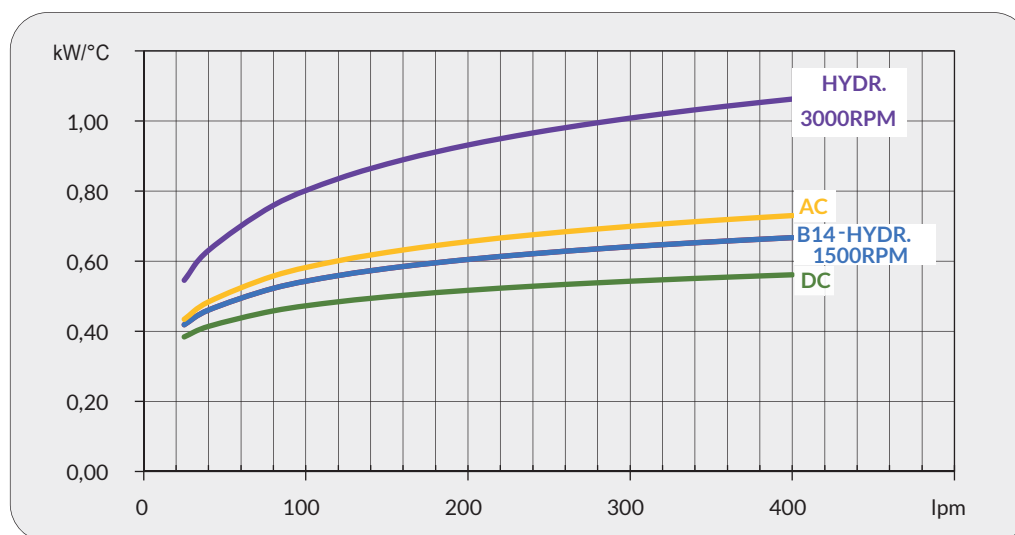
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/h)	IP	lt	kg
2W5003###	230-400 AC	50/60	0,52/0,66	1,9/1,1	1450/1690	450	76	5000	54	5	27
2W5004###	230-400 AC B14 265-460 AC B14	50 60	0,75 0,86	3,0/1,7 3/1,7	1440 1750	450	79	5200	55	5	30
2W5012###	12 DC	/	0,13	11,0	2340	280	76	1720	67	5	24
2W5024###	24 DC	/	0,15	6,2	2600	280	79	1750	67	5	24
2W5056###	Prepared for Gr.2 hydraulic motor					450			/	5	23

I dati si riferiscono al singolo ventilatore

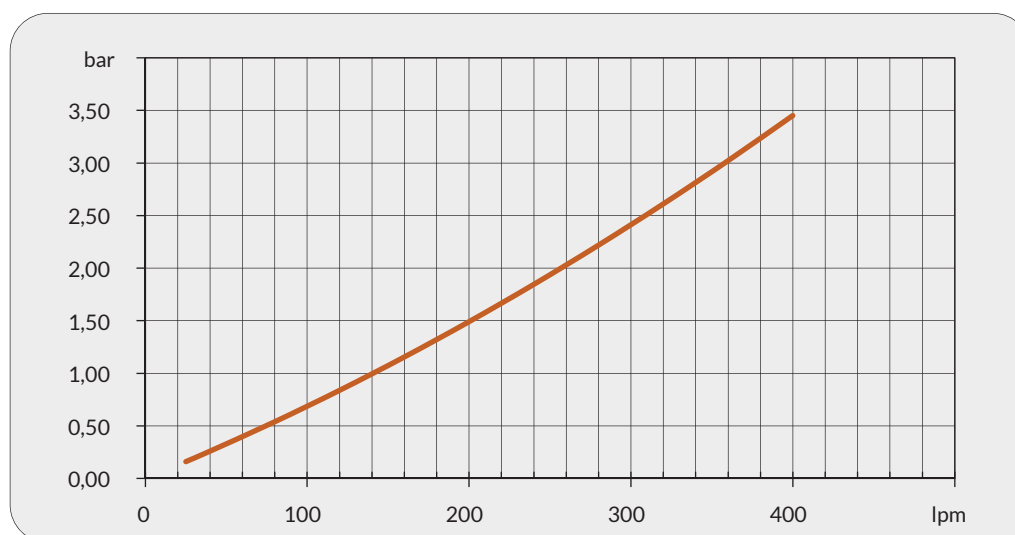
Data refers to each fan

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

cSt	10	15	20	30	40	50	60	80	100	200	300
F	0,5	0,65	0,77	1	1,2	1,4	1,6	1,9	2,1	3,3	4,3

