



Serie HPV
HPV Series



Serie HPV

HPV Series

APPLICAZIONE

APPLICATION

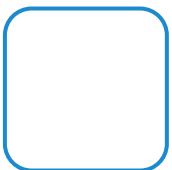
Grazie all'ampia gamma di combinazioni, gli scambiatori della serie HPV si prestano come la soluzione di raffreddamento ottimale per svariate applicazioni mobili e industriali quali:

The wide range of combinations makes the HPV series heat exchangers the optimal cooling solution for a great variety of mobile and industrial applications such as:



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

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



Grazie alla sua valvola di bypass integrata, il prodotto può essere preservato dai picchi di pressione dovuti alle partenze ad olio freddo.

Thanks to the incorporated bypass valve, the product can be protected from pressure peaks, caused by cold oil startintings.





Modulo richiesta dati

Sheet for cooler selection

CLIENTE COMPANY	
RICHIEDENTE NAME	

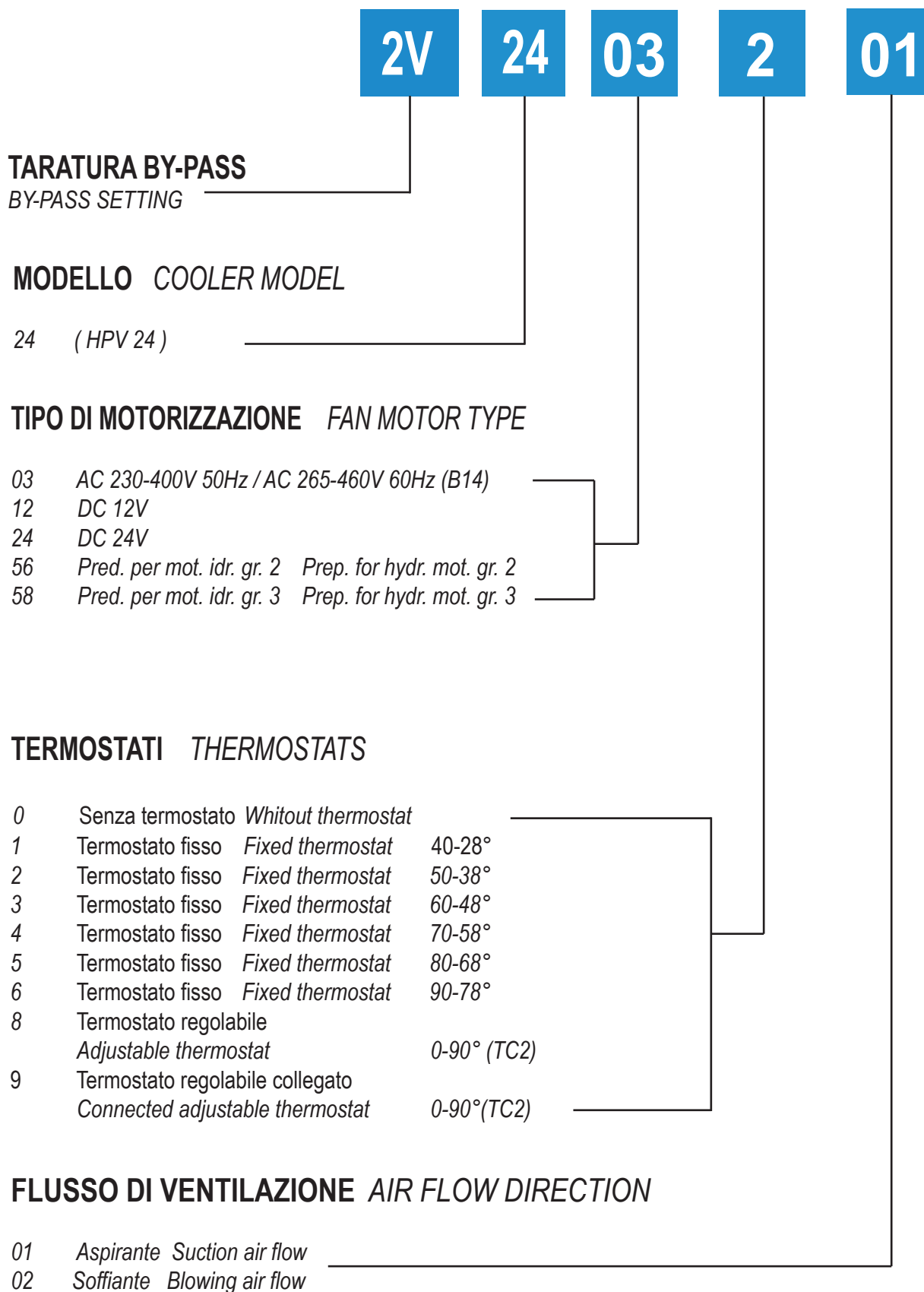
TIPOLOGIA FLUIDO FLUID TYPE		
PORTATA FLOW RATE	lpm	
POTENZA INSTALLATA INSTALLED POWER	kW	
POTENZA DA DISSIPARE POWER TO BE DISSIPATED	kW	
TEMPERATURA INGRESSO INLET TEMPERATURE	°C	
TEMPERATURA ARIA MAX MAX AMBIENT TEMPERATURE	°C	
PRESSIONE DI LAVORO WORKING PRESSURE	bar	

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	GR.3	TRIFASE 230/400V 265/460V THREEPHASE 230/400V 265/460V
		TENSIONE SPECIALE SPECIAL VOLTAGE
		50 Hz 60 Hz



Denominazione codice prodotto

Ordering code



Modello - Codice prodotto

Cooler model - Product 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 DRAIN DRAIN Series

Modello Model	Codice Code
HPV 12	2V12
HPV 18	2V18
HPV 24	2V24
HPV 30	2V30
HPV 36	2V36
HPV 42	2V42
HPV 50	2V50
HPV 52	2V52

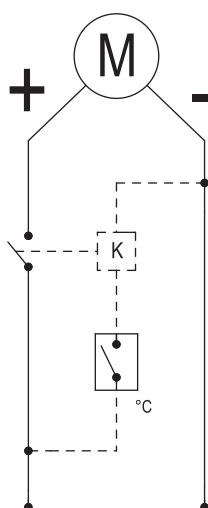




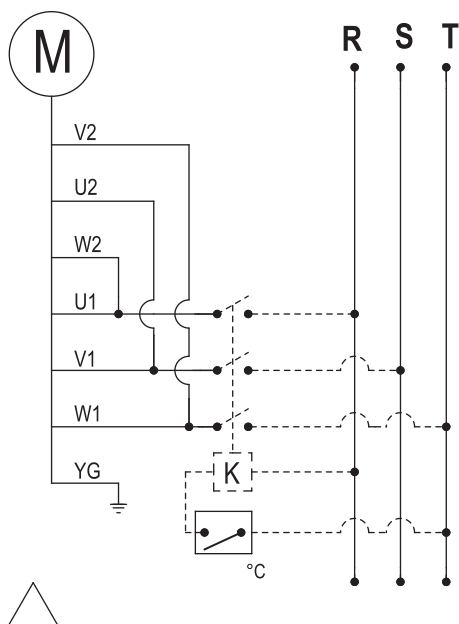
Collegamenti elettrici

Electric Wiring

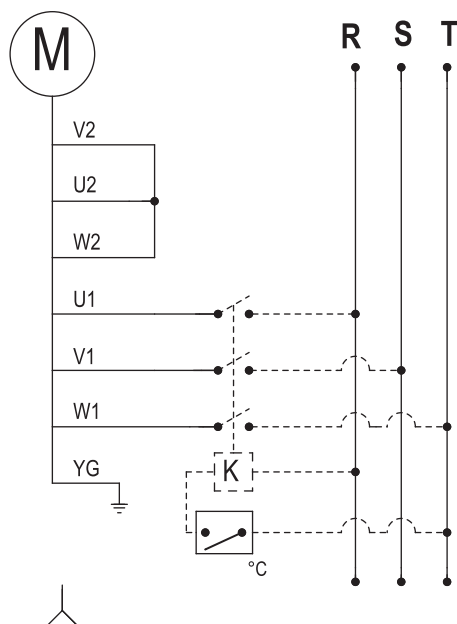
COLLEGAMENTO ELETTRICO 12-24V DC
12-24V DC ELECTRIC WIRING



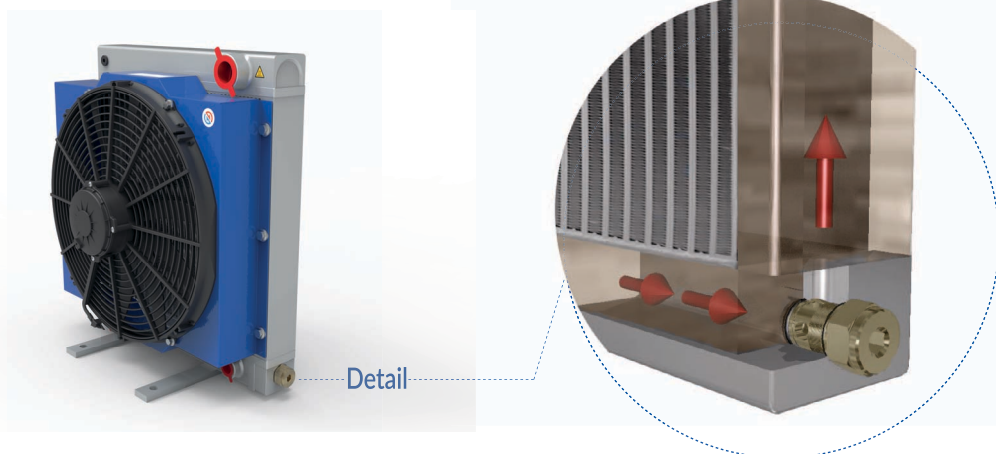
COLLEGAMENTO ELETTRICO 230V AC TRIF.
230V AC 3PH ELECTRIC WIRING



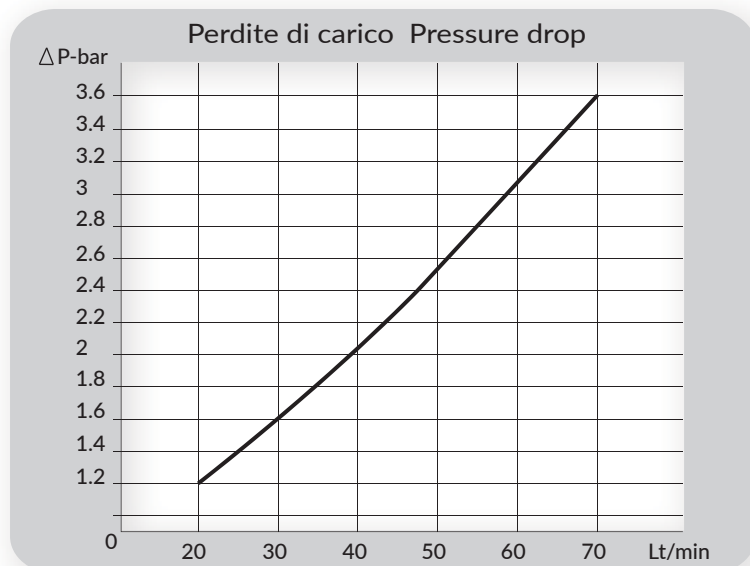
COLLEGAMENTO ELETTRICO 400/460V AC TRIF.
400/460V AC THREEPHASE ELECTRIC WIRING



Dati tecnici valvola by-pass Technical data by-pass valve



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



Gli scambiatori della serie HPV nascono dalle esigenze applicative ad ampio raggio espresse dal mercato.

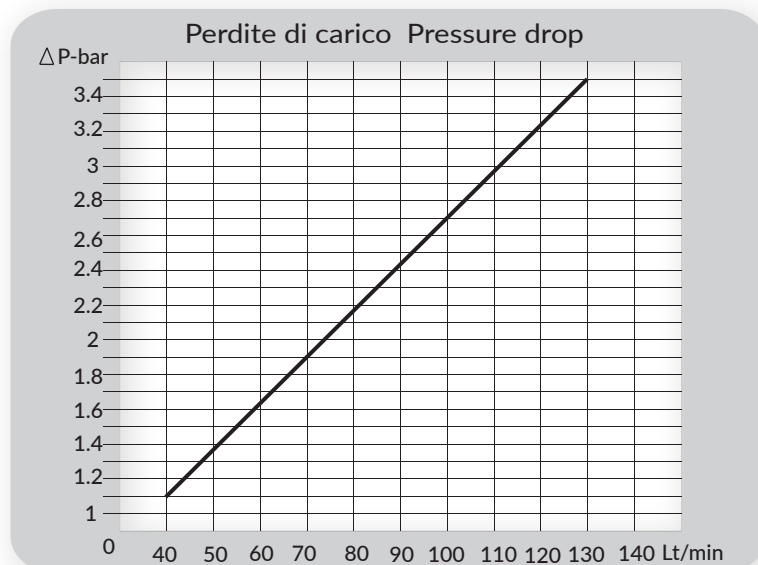
Punto di forza di questi prodotti é rappresentato dal by-pass integrato che ne amplifica la semplicità d' uso, eliminando la necessità di dovere aggiungere da parte del cliente una valvola autonoma, assicurando così elevata funzionalità.

HPV Series were born to answer the large application needs of the market.

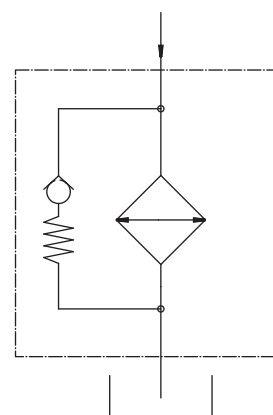
The main characteristic of this new products is the integrated by-pass valve that will simplify their employ and will avoid the customers to add an external and independent valve.

This will guarantee a very high efficiency.

Valvola cartuccia tipo 3 / Cartridge valve type 3 - (1.5 bar)



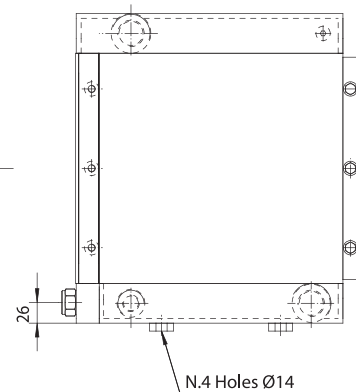
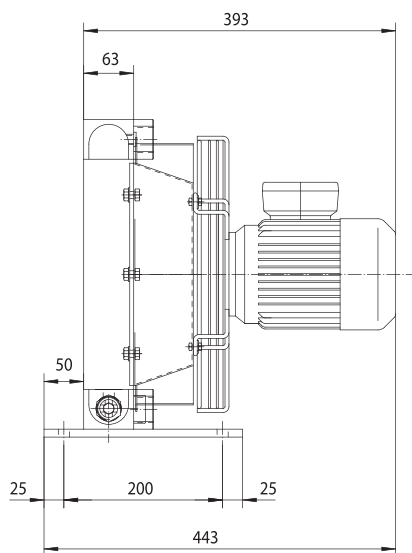
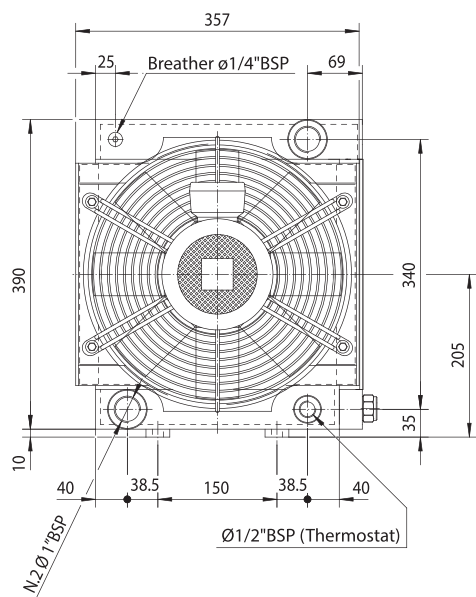
Schema idraulico Hydraulic circuit



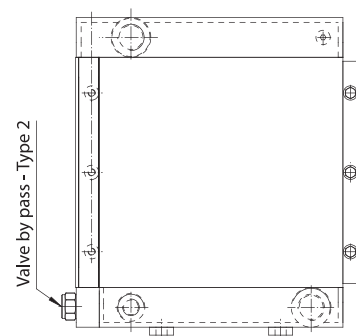
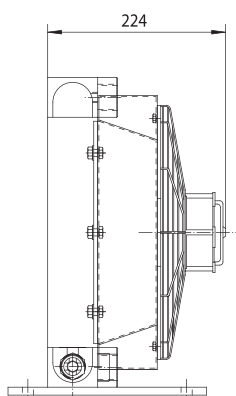
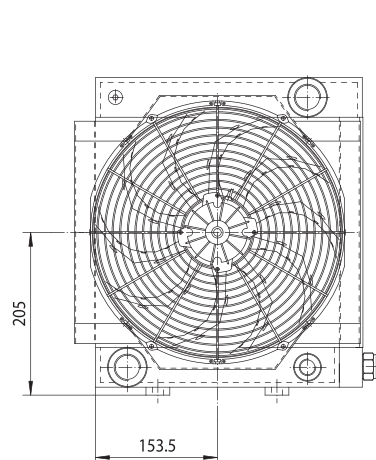


Serie HPV

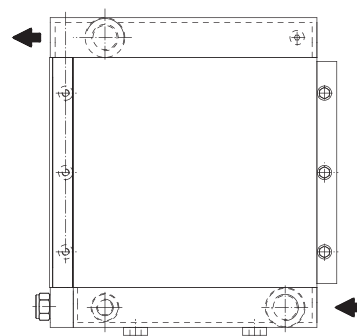
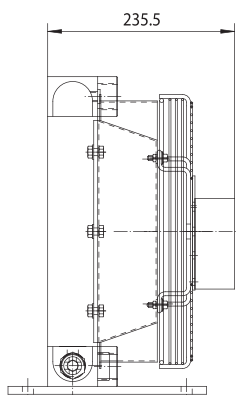
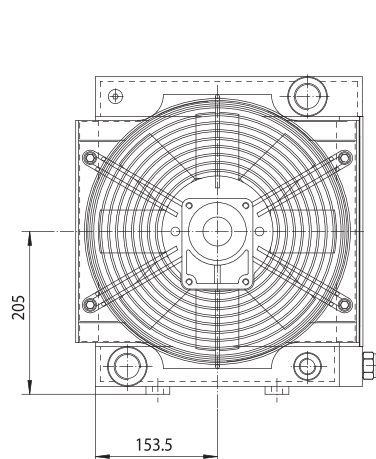
HPV 12



P/N 2V1203###



P/N 2V1212###
P/N 2V1224###



P/N 2V1256###

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

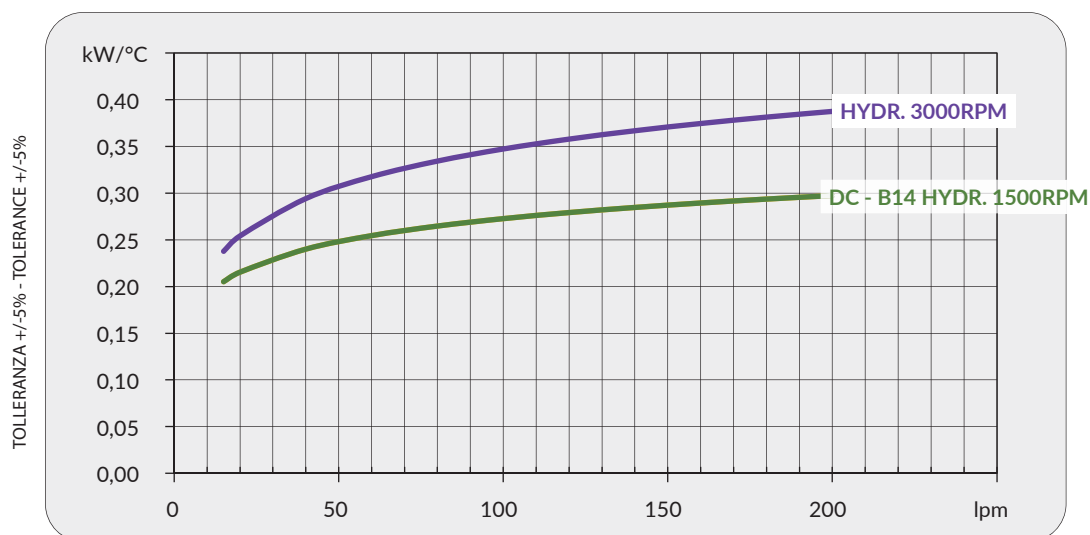


Dati tecnici Technical Data

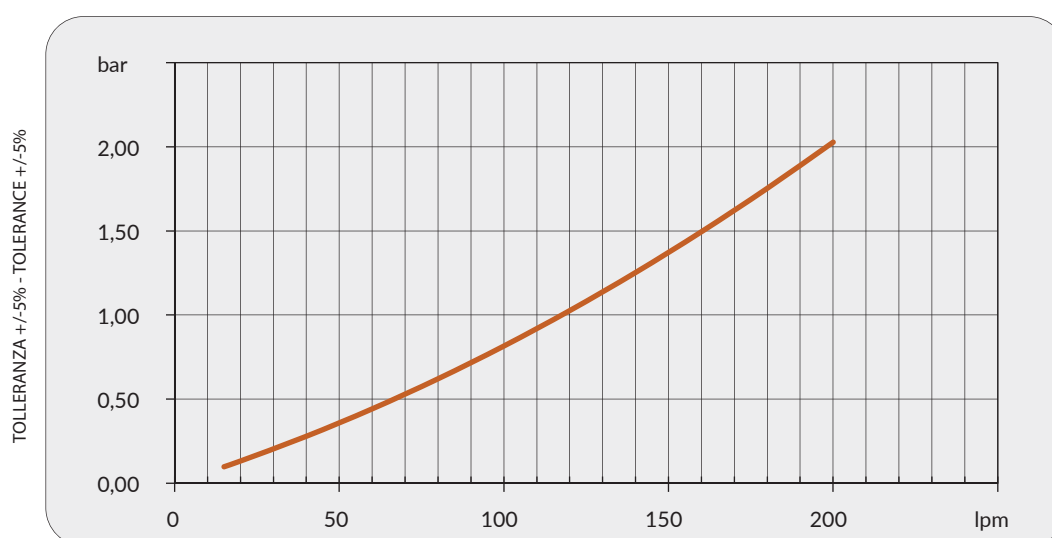
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	lt	kg
2V1203###	265-460 B14 AC 230-400 B14AC	50 60	0,25 0,29	1,7-1	1350 1620	315	72	1670	55	1,9	17
2V1212###	12 DC	/	0,111	9,3	2600	305	77	1590	67	1,9	15
2V1224###	24 DC	/	0,160	6,15	3100	305	80	1700	67	1,9	15
2V1256###	Prepared for Gr.2 hydraulic motor					315			/	1,9	16

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



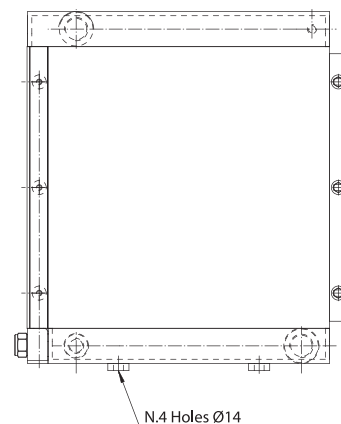
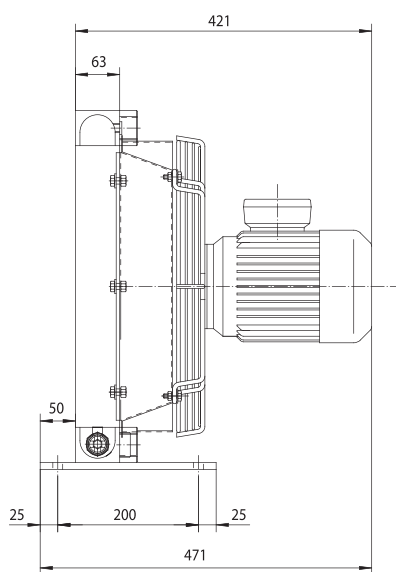
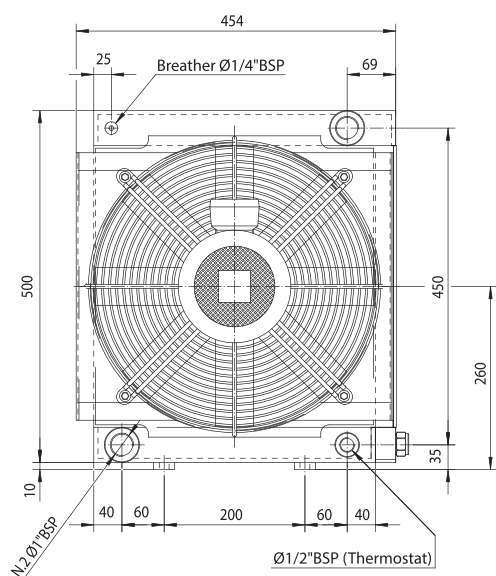
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

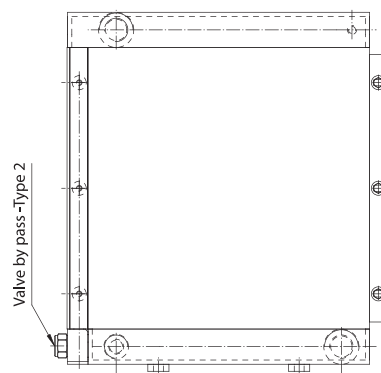
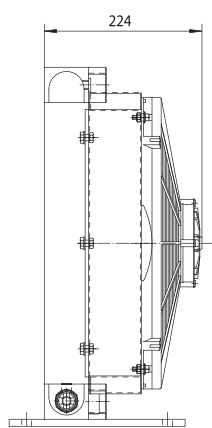
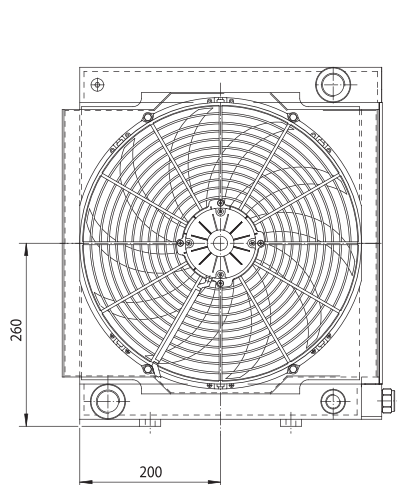


Serie HPV

HPV 18

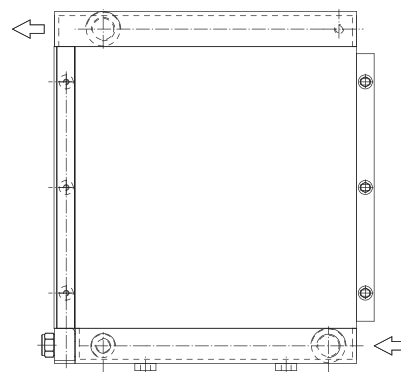
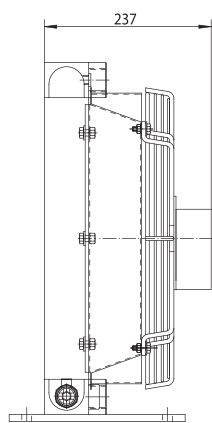
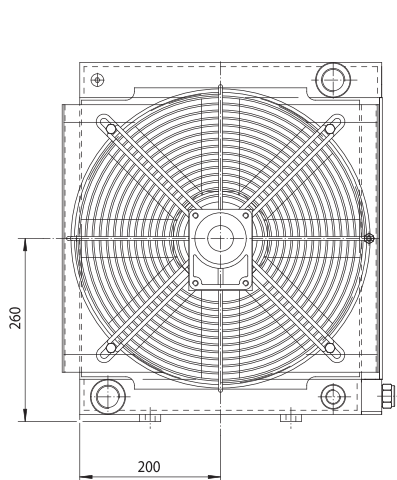


P/N 2V1803###



P/N 2V1812###

P/N 2V1824###



P/N 2V1856###

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

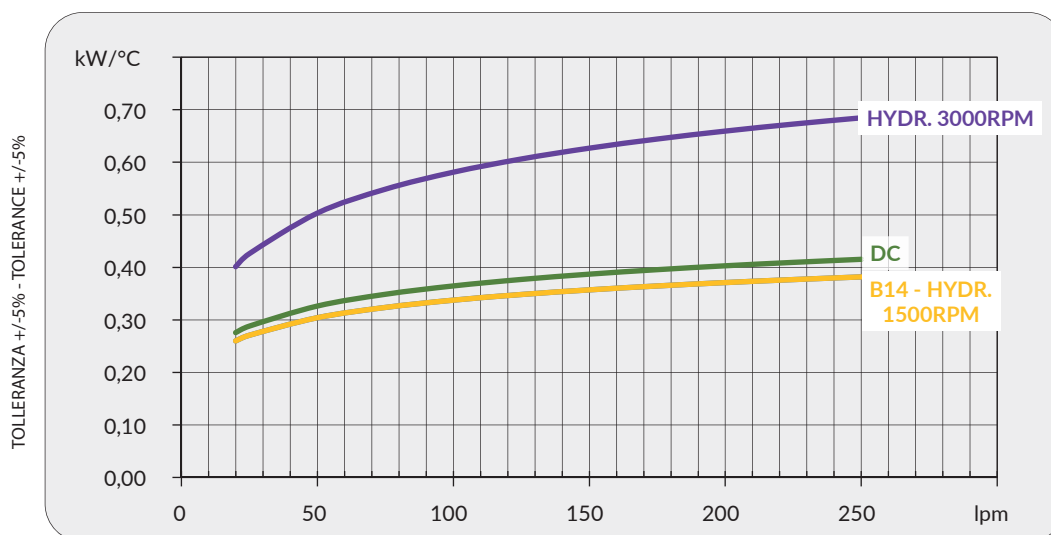


Dati tecnici Technical Data

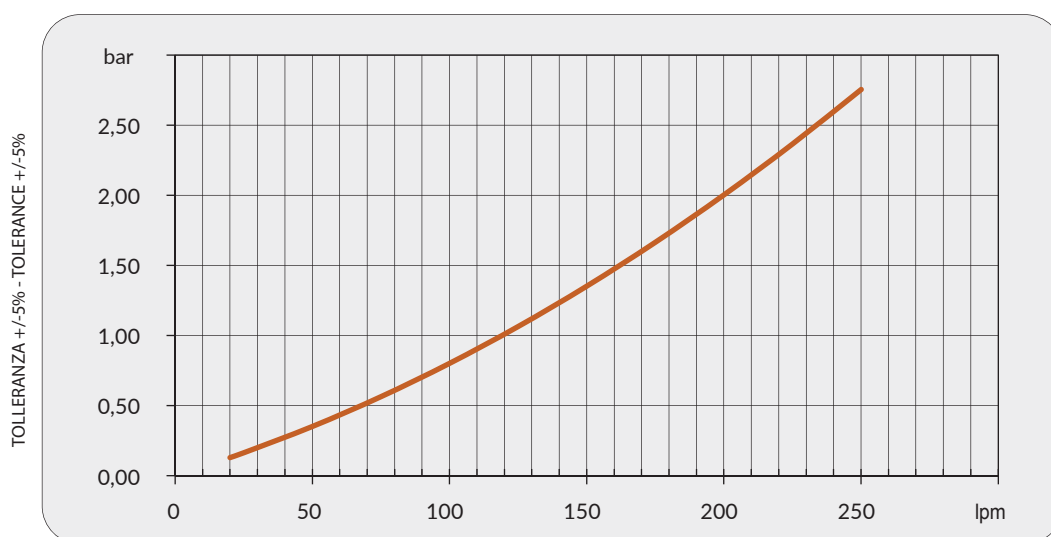
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	lt	kg
2V1803###	230-400 B14 AC 265-460 B14 AC	50 60	0,37 0,43	2,1-1,1 2,1-1,1	1370 1650	400	77	2300	55	2,9	20
2V1812###	12 DC	/	0,25	20,9	2350	385	77	2620	68	2,9	18
2V1824###	24 DC	/	0,24	9,9	2580	385	81	2620	68	2,9	18
2V1856###	Prepared for Gr.2 hydraulic motor					400			/	2,9	19

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



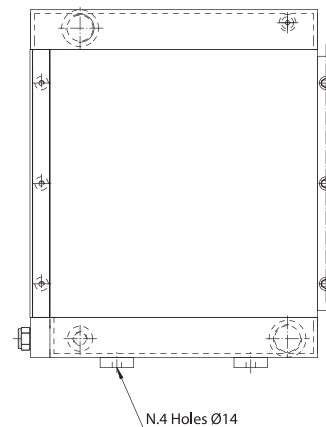
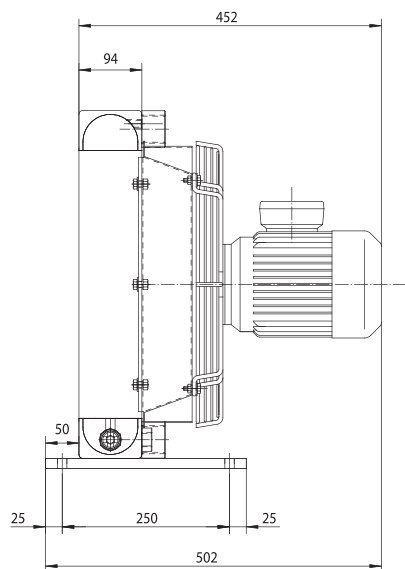
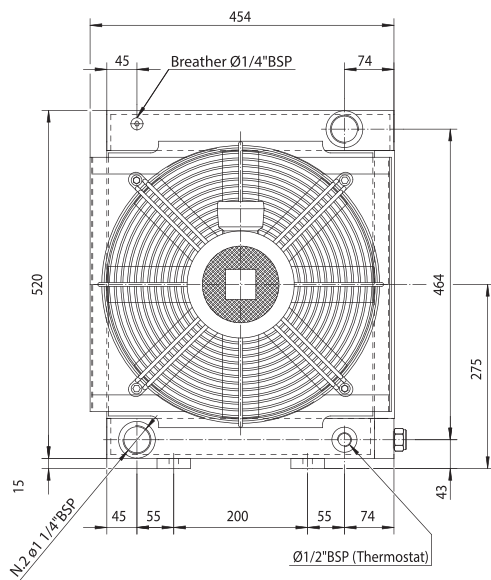
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

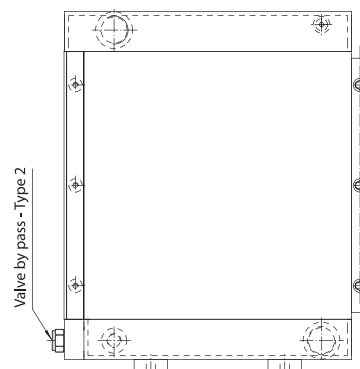
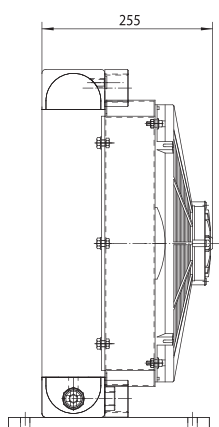
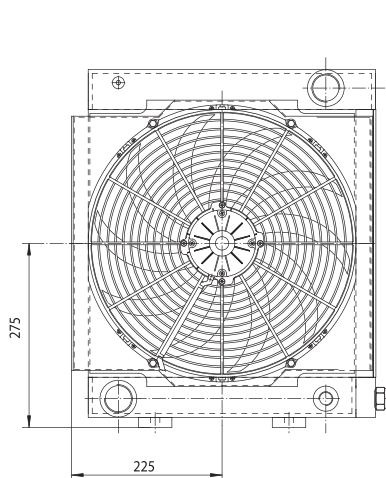


Serie HPV

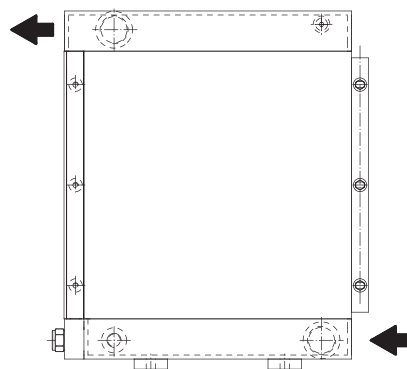
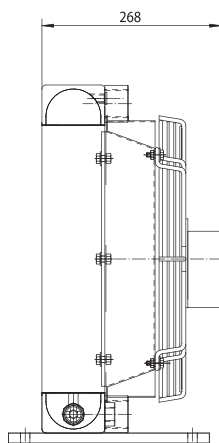
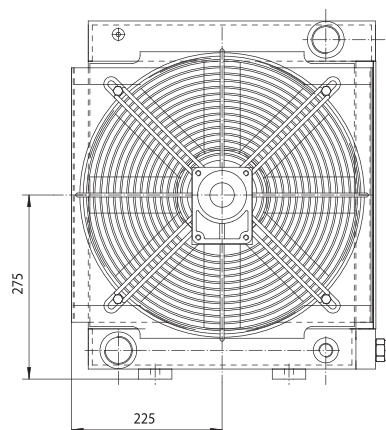
HPV 24



P/N 2V2403###



P/N 2V2412###
P/N 2V2424###



P/N 2V2456###

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

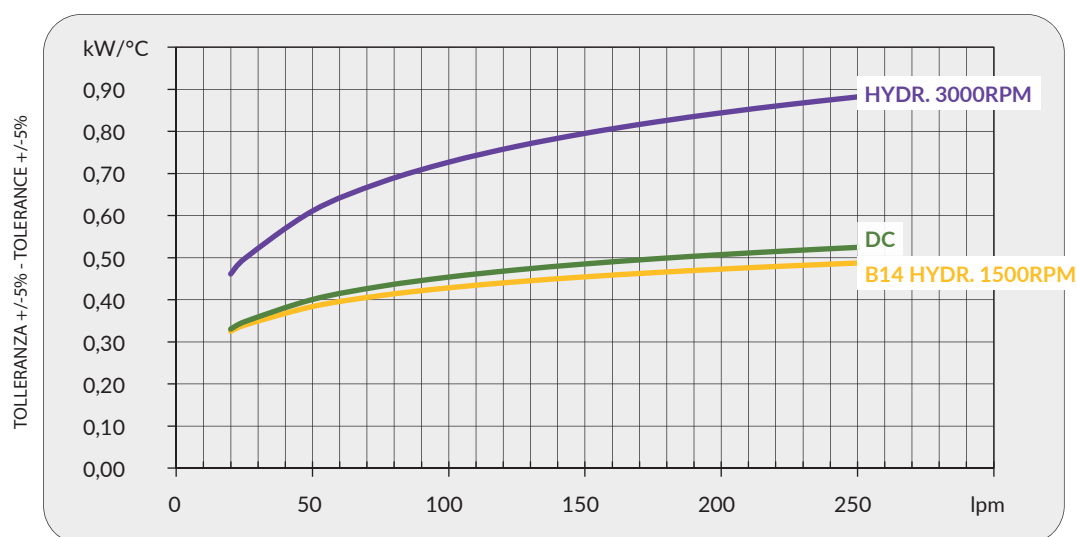


Dati tecnici Technical Data

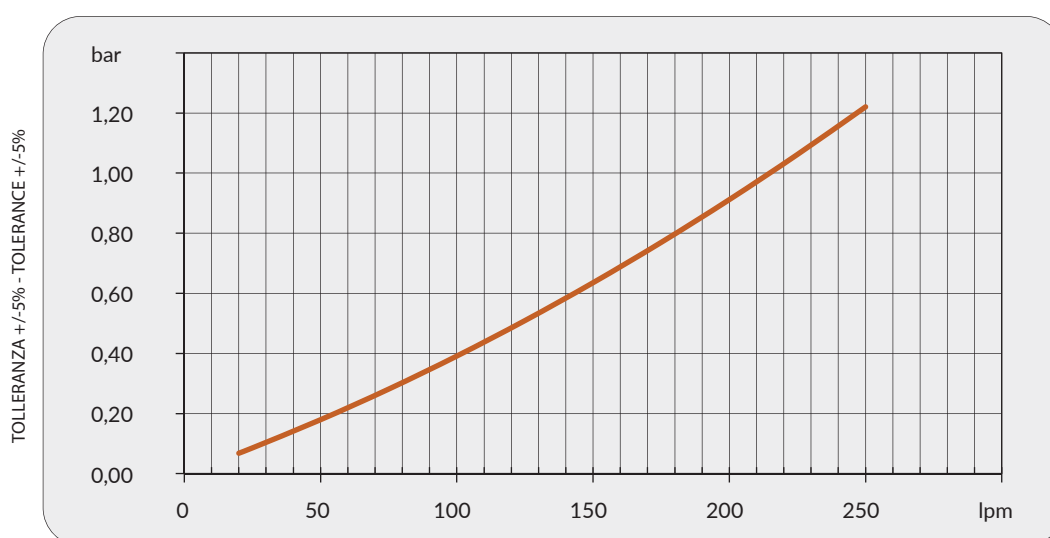
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	It	kg
2V2403###	230-400 B14 AC	50	0,55	2,9 - 1,7	1320	400	79	1850	55	2,9	28
	230-460 B14 AC	60	0,63	2,9 - 1,7	1690						
2V2412###	12 DC	/	0,24	20,3	2350	385	77	2250	68	2,9	22
2V2424###	24 DC	/	0,23	9,7	2580	305	80	2250	68	2,9	22
2V2456###	Prepared for Gr.2 hydraulic motor					400			/	2,9	23

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



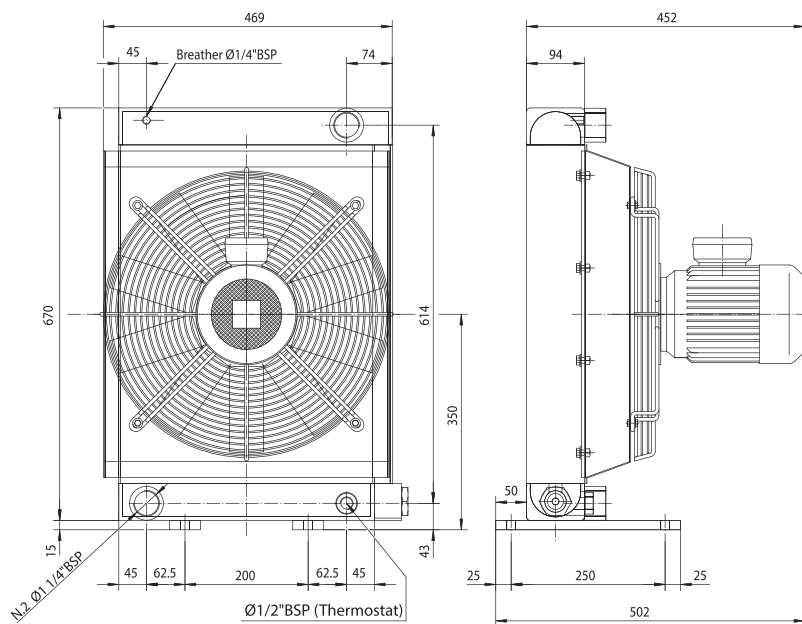
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

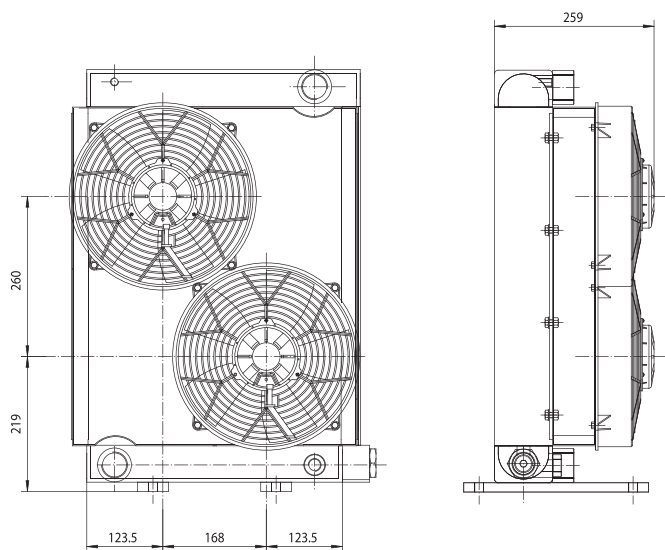


Serie HPV

HPV 30

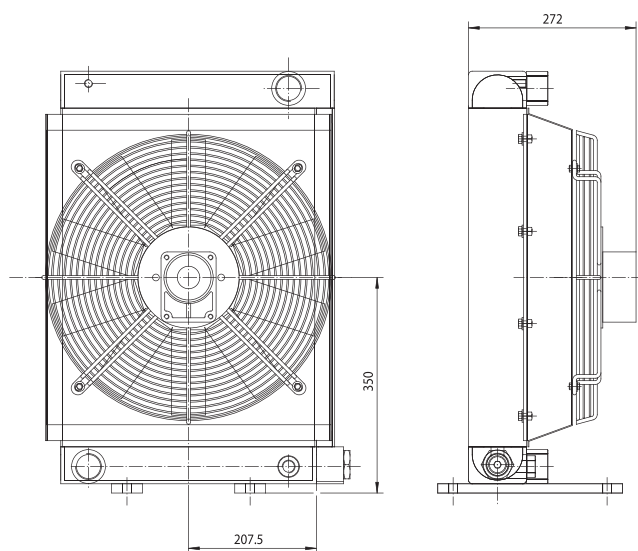


P/N 2V3003###



P/N 2V3012###

P/N 2V3024###



P/N 2V3056###

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



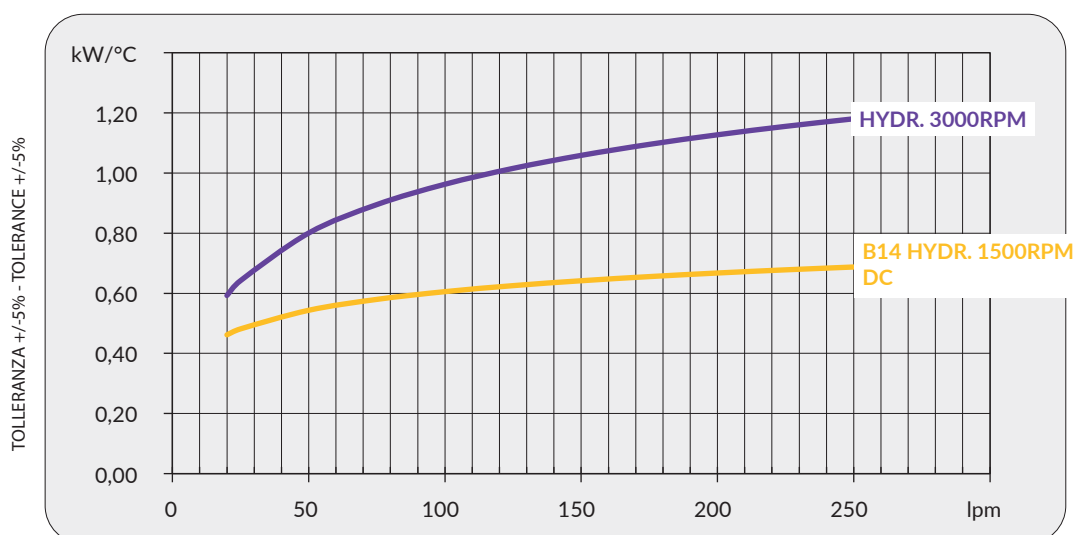
Dati tecnici Technical Data

P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³ / h)	IP	lt	kg
2V3003###	230-400 B14 AC	50	0,75	3,1 - 1,8	1430	450	82	3100	55	6,8	37
	230-460 B14 AC	60	0,86	3,1 - 1,8	1715						
2V3012###	12 DC	/	0,17	13,9	2900	280	78	1550	68	6,8	32
2V3024###	24 DC	/	0,16	6,7	2900	280	78	1700	68	6,8	32
2V3056###	Prepared for Gr.2 hydraulic motor					450			/	6,8	35

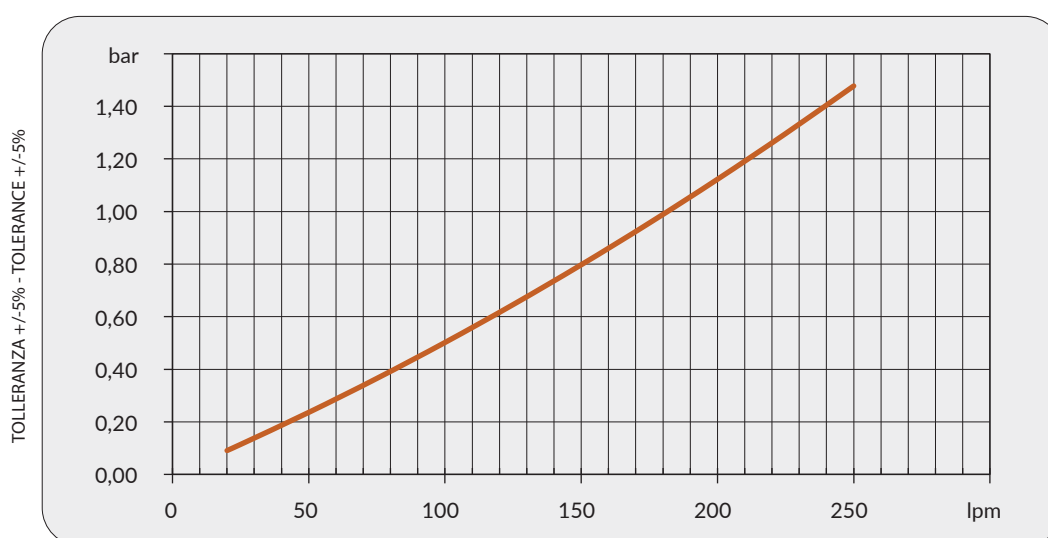
I dati si riferiscono al singolo ventilatore
Data refers to each fan

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



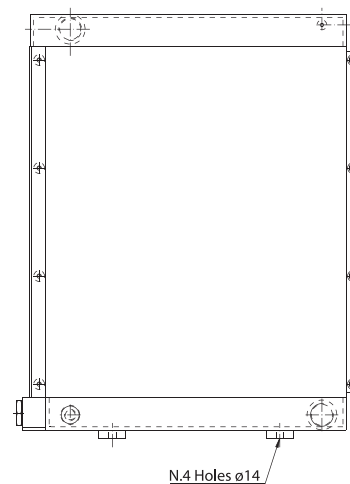
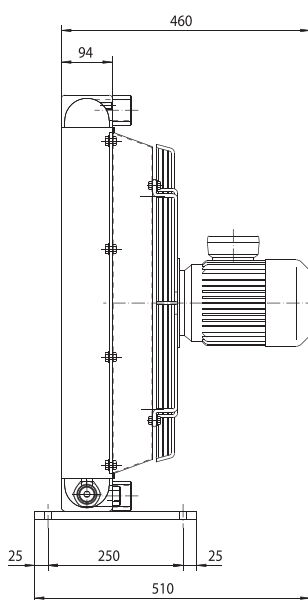
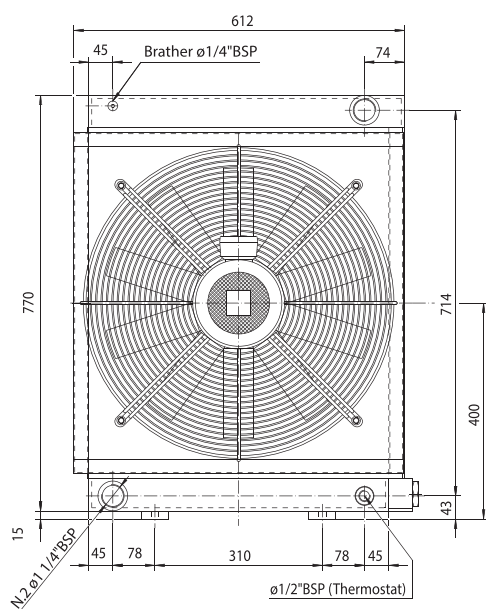
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

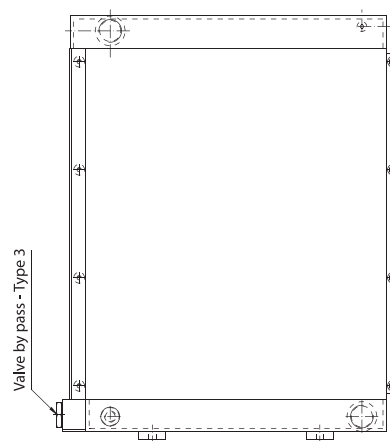
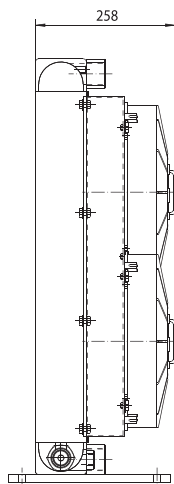
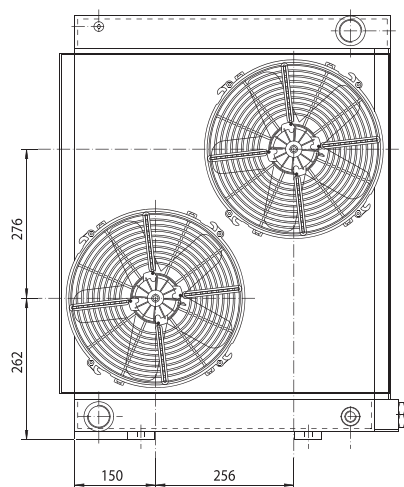


Serie HPV

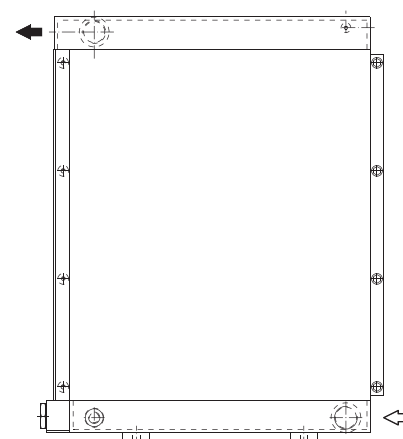
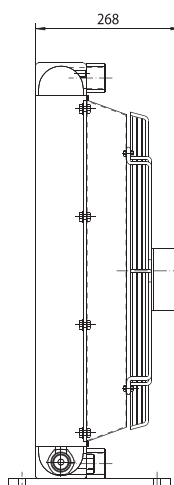
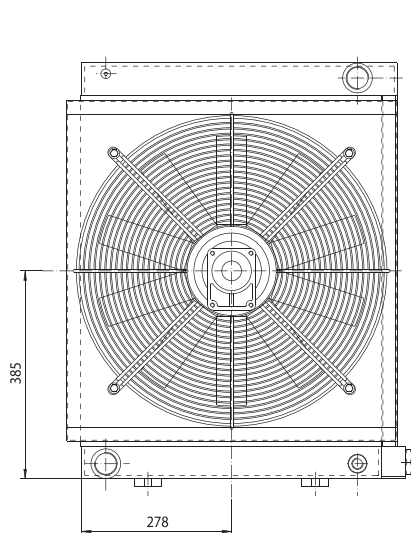
HPV 36



P/N 2V3603###



P/N 2V3612###
P/N 2V3624###



P/N 2V3656###

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

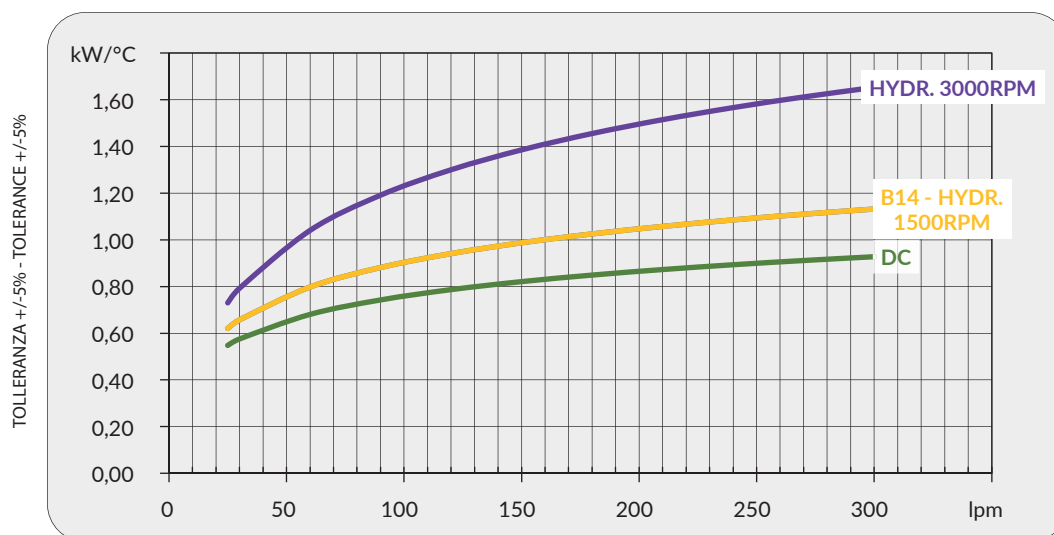


Dati tecnici Technical Data

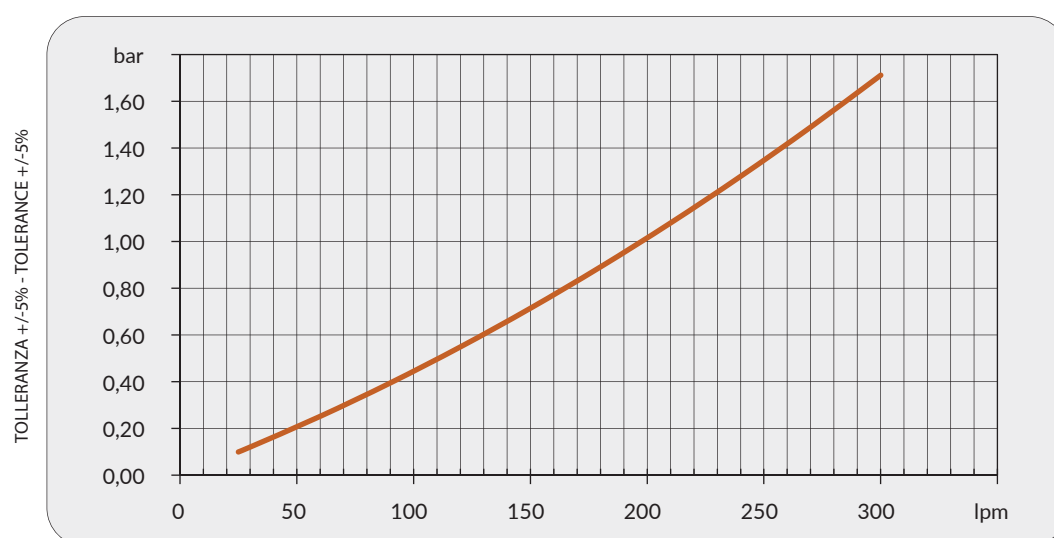
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³ / h)	IP	lt	kg
2V3603###	230-400 B14 AC 265-460 B14 AC	50 60	1,1 1,3	4,5 - 2,6 4,5 - 2,6	1440 1730	500	82	5650	55	9,4	60
2V3612###	12 DC	/	0,160	13,30	2560	305	83	2100	67	9,4	50
2V3624###	24 DC	/	0,177	7,35	3000	305	84	2400	67	9,4	50
2V3656###	Prepared for Gr.2 hydraulic motor					450			/	9,4	52

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



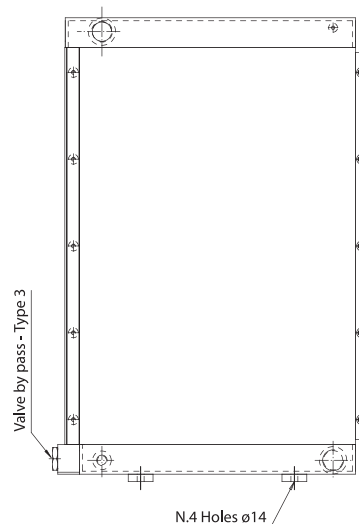
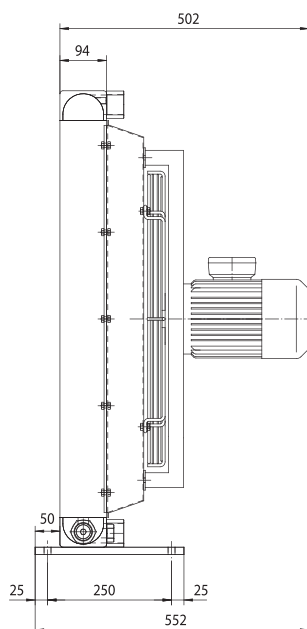
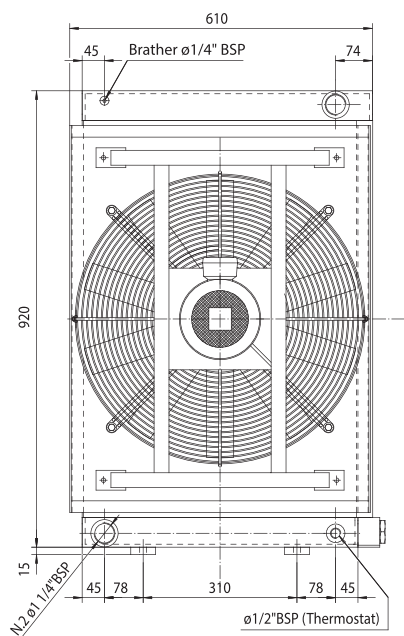
Fattore di correzione-F-(perdite di carico) Correction factor-F-(Pressure drop)

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

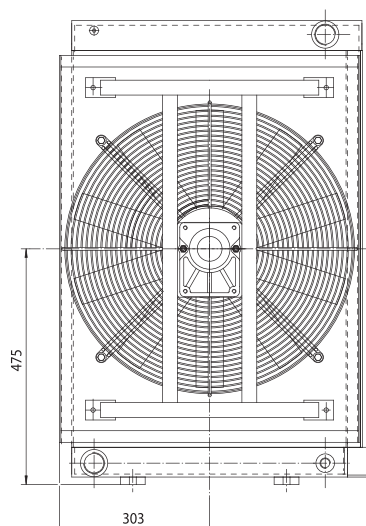
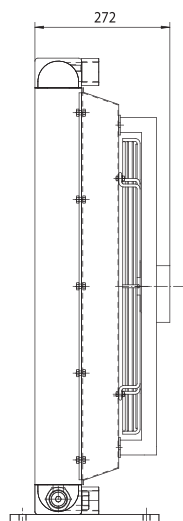
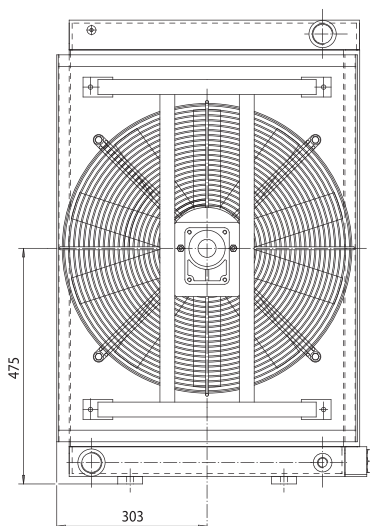


Serie HPV

HPV 42

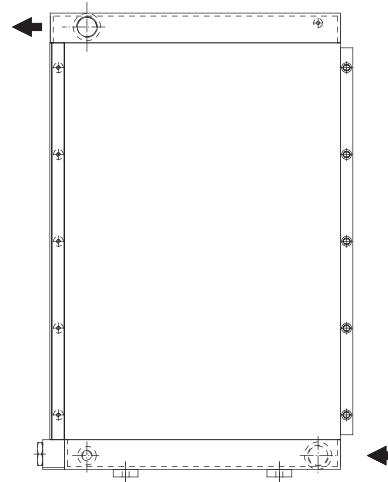
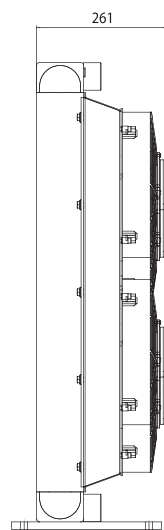
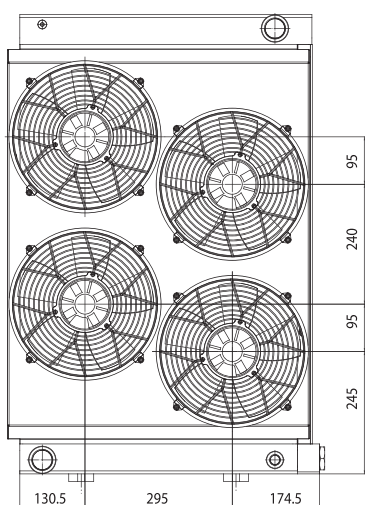


P/N 2V4203###



P/N 2V4256###

P/N 2V4258###



P/N 2V4212###
P/N 2V4224###

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



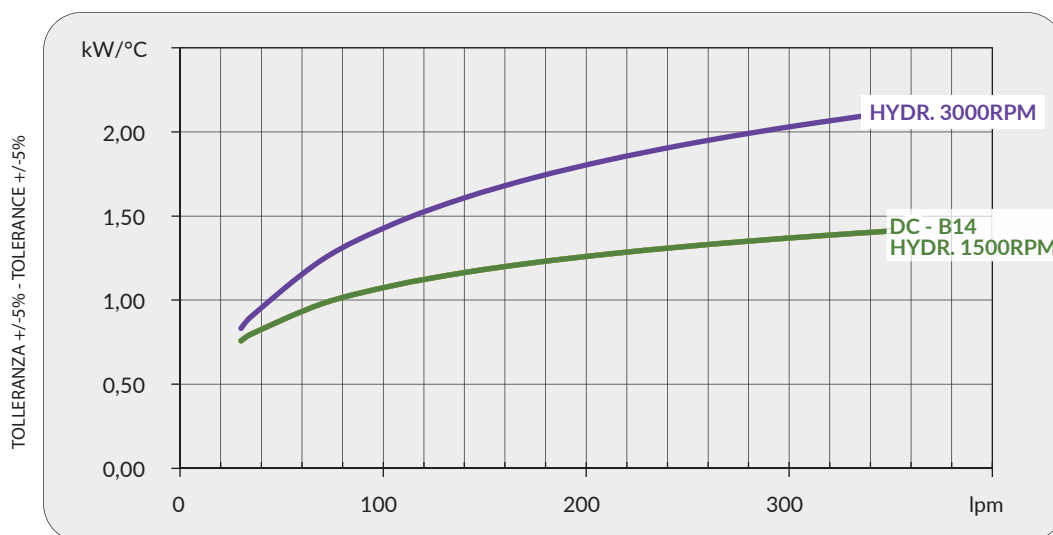
Dati tecnici Technical Data

P/N	V	Hz	kW(±10%)	A (±10%)	rpm	Ø Fan	dB (A)	(m³ / h)	IP	lt	kg
2V4203###	230-400 B14 AC 265-460 B14 AC	50 60	1,1 1,3	4,5 - 2,6 4,5 - 2,6	1440 1730	560	84	6820	55	10,6	65
2V4256###	Prepared for Gr.2 hydraulic motor					560			/	10,6	58
2V4258###	Prepared for Gr.3 hydraulic motor					560			/	10,6	58
2V4212###	12V	-	0,19	14,3	2920	280		6820	68	10,6	58
2V4224###	24V	-	0,18	6,8	2920	280		6820	68	10,6	58

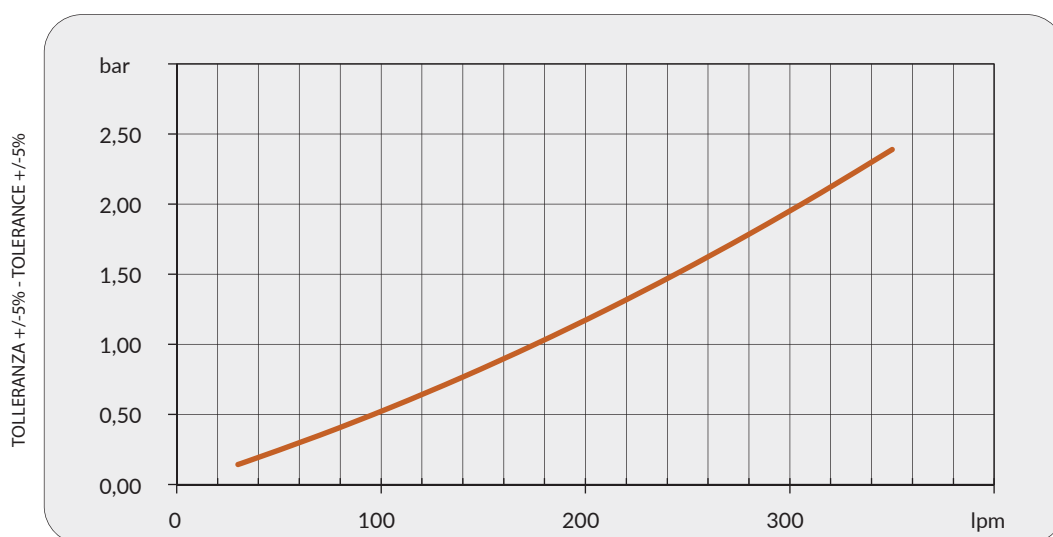
I dati si riferiscono al singolo ventilatore
Data refers to each fan

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Diagramma rendimento Performance diagram

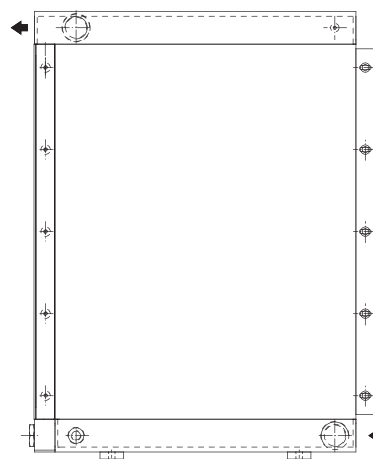


Perdite di carico Pressure drop (@30cSt)



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



P/N 2V5012###
P/N 2V5024###

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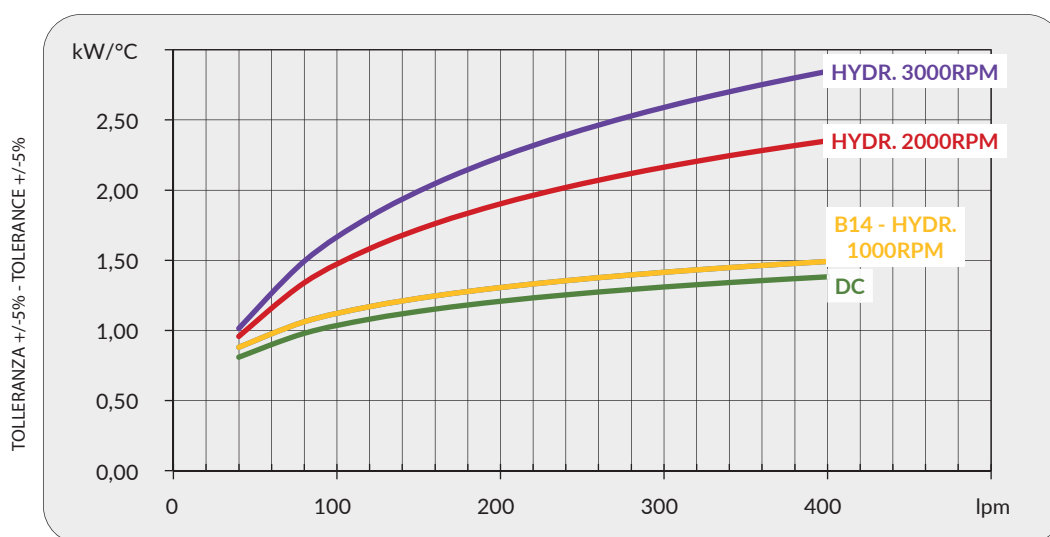
Dati tecnici Technical Data

P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	It	kg
2V5003###	230-400 B14 AC 265-460 B14 AC	50 60	1,1 1,3	5 - 2,9 5 - 2,9	950 1140	630	80	5910	55	14,2	90
2V5056###	Prepared for Gr.2 hydraulic motor					630			/	14,2	83
2V5058###	Prepared for Gr.3 hydraulic motor					630			/	14,2	83
2V5012###	12	-	0,21	16,1		305			/	14,2	83
2V5024###	24	-	0,21	8,5		305			68	14,2	83

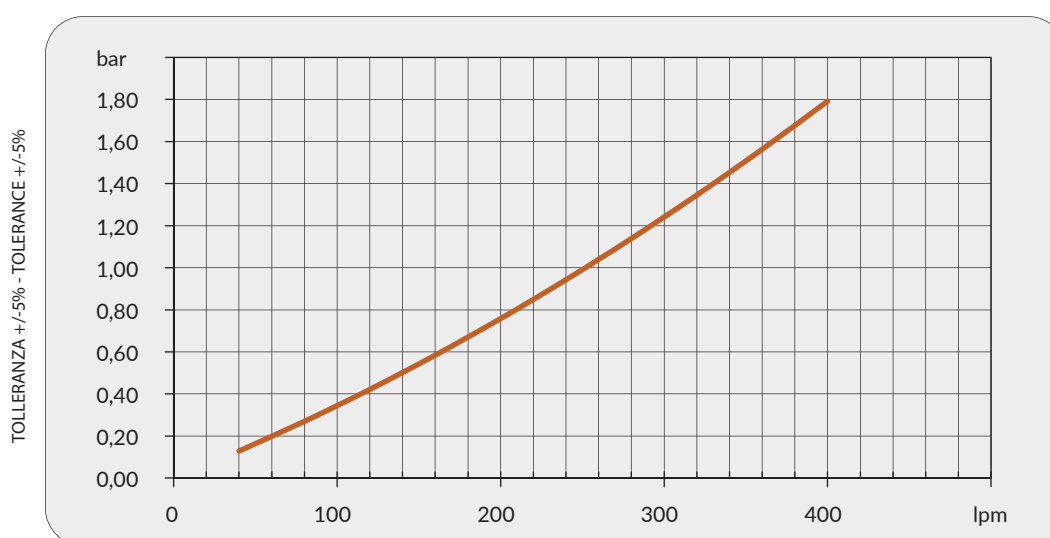
I dati si riferiscono al singolo ventilatore
Data refers to each fan

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (30cSt)



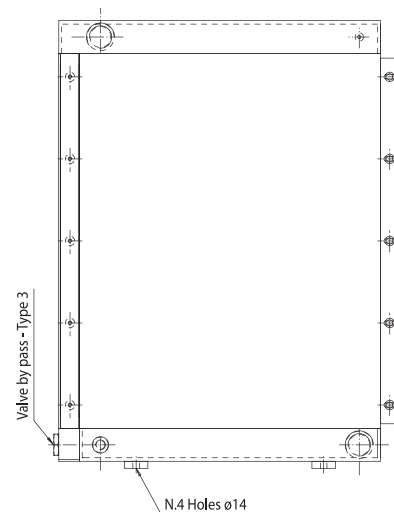
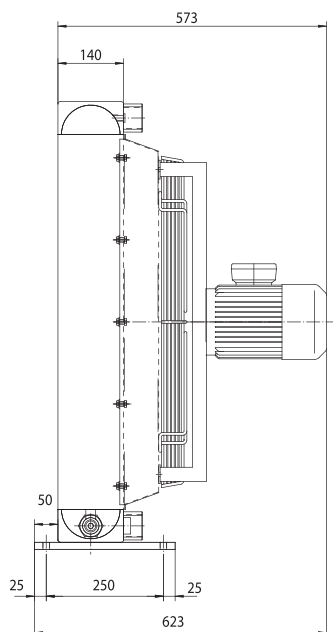
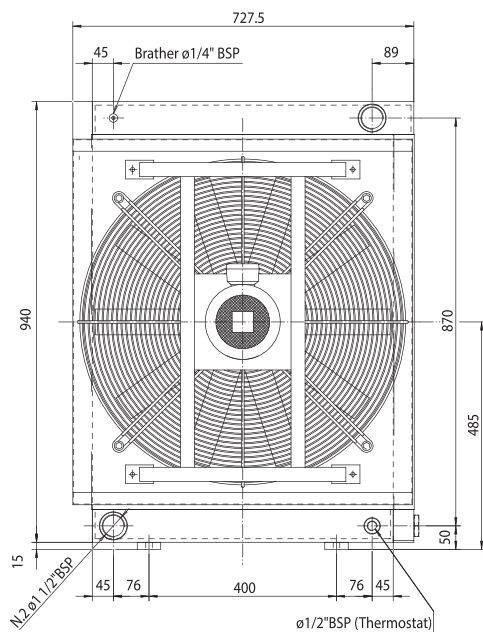
Fattore di correzione-F-(perdite di carico) Correction factor-F-(Pressure drop)

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

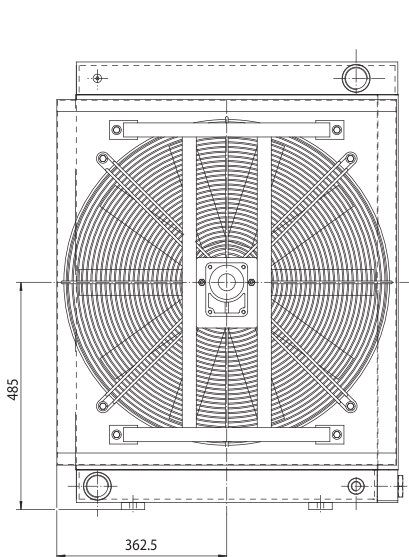


Serie HPV

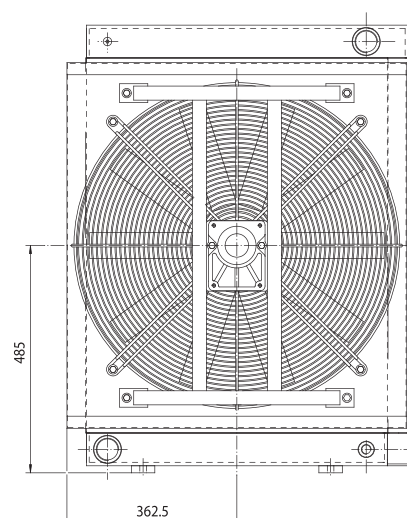
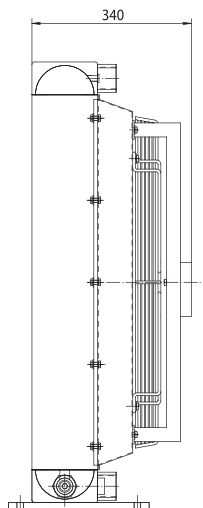
HPV 52



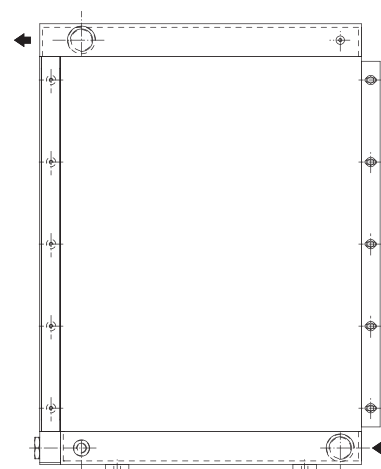
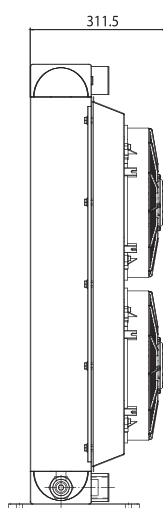
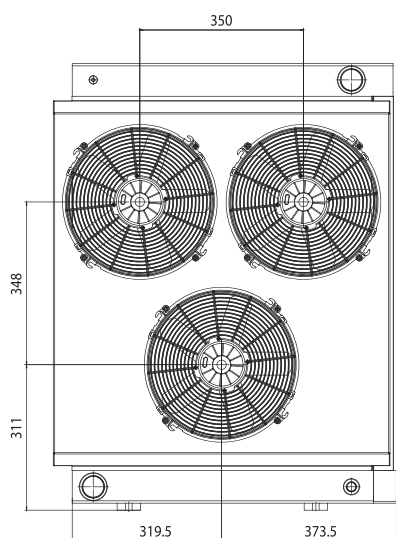
P/N 2V5203###



P/N 2V5256###



P/N 2V5258###



P/N 2V5212###
P/N 2V5224###

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



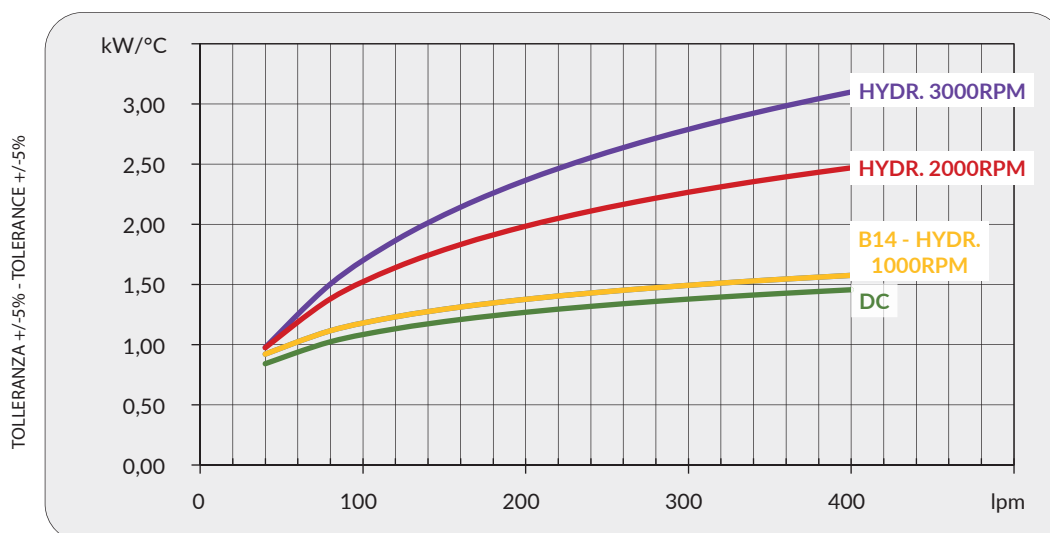
Dati tecnici Technical Data

P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³ / h)	IP	lt	kg
2V5203###	230-400 B14 AC 265-460 B14 AC	50 60	1,1 1,3	5 - 2,9 5 - 2,9	950 1140	630	80	5260	55	17,7	95
2V5256###	Prepared for Gr.2 hydraulic motor					630			/	17,7	89
2V5258###	Prepared for Gr.3 hydraulic motor					630			/	17,7	89
245212###	12	-	0,21	16,1		305			68	17,7	89
245224###	24	-	0,22	8,5		305			68	17,7	89

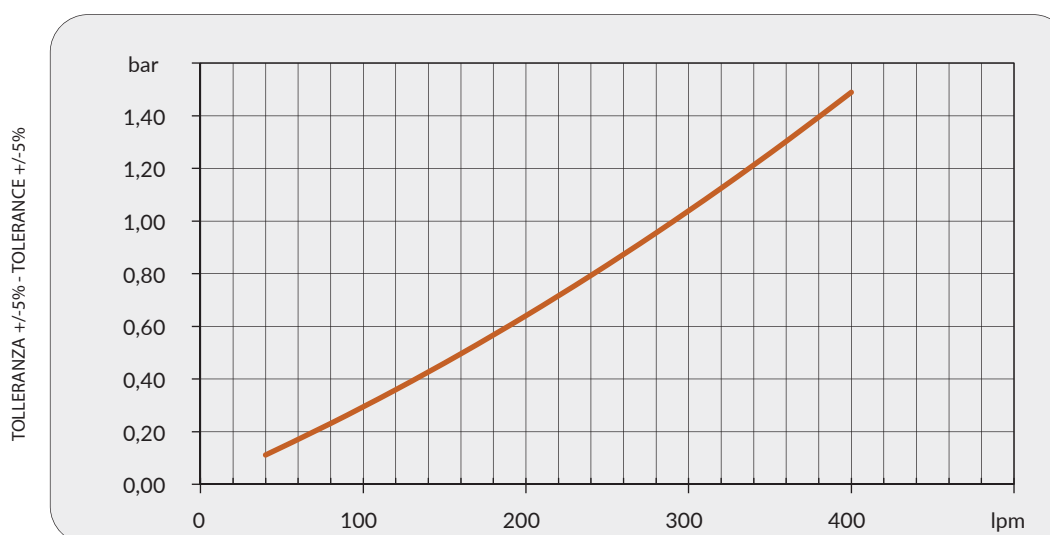
I dati si riferiscono al singolo ventilatore
Data refers to each fan

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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

