



Serie 2000K DRAIN
2000K DRAIN series



2000K DRAIN

2000K DRAIN Series

APPLICAZIONE

APPLICATION

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

Thanks to the wide range of combinations, the 2000K Drain 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.
Impianti oleodinamici.
Macchine utensili.
Movimentazione materiali.
Altro su richiesta.

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



Punto di forza di questi prodotti è l'elevata efficienza con basse portate di olio.

The main characteristic of this heat exchanger is the high efficiency with low oil flows.





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

2Z24

03

2

01

MODELLO COOLER MODEL

2Z24 (DRAIN 2024K)

TIPO DI MOTORIZZAZIONE FAN MOTOR TYPE

- 01 AC 230V 50/60 Hz
- 03 AC 230-400V-50Hz / AC 230-400-60Hz
- 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)

TIPO DI VENTILAZIONE VENTILATING TYPE

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

Modello - Codice prodotto

Cooler model - Code

Serie DRAIN - DRAIN Series

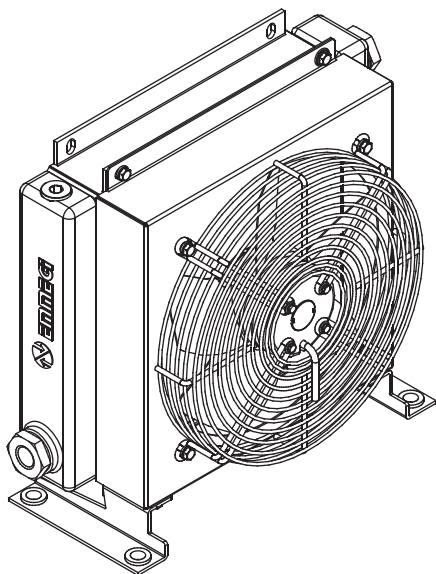
Modello Model	Codice Code
DRAIN 2010K	2Z10
DRAIN 2015K	2Z15
DRAIN 2020K	2Z20
DRAIN 2024K	2Z24
DRAIN 2030K	2Z30
DRAIN 2040K	2Z40
DRAIN 2050K	2Z50



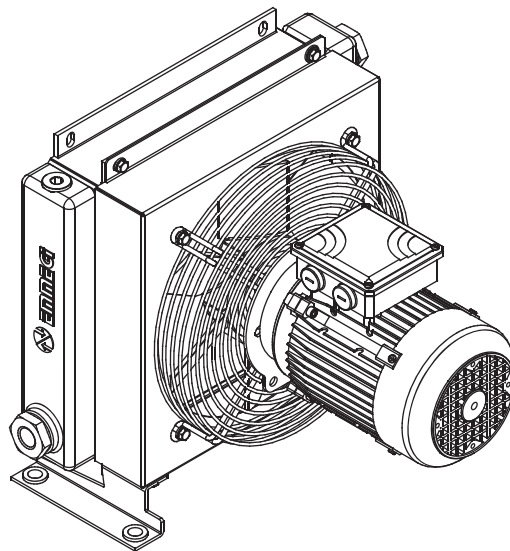


2000K DRAIN

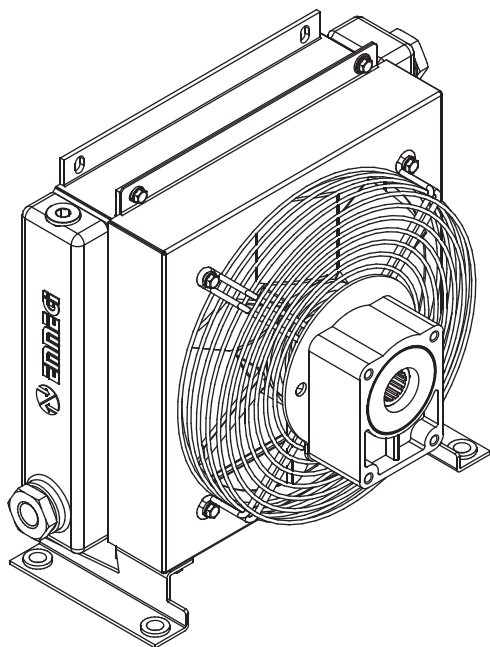
2000K DRAIN Series



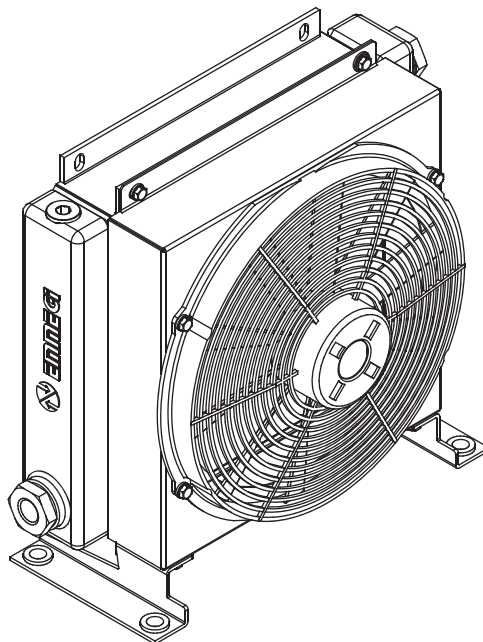
AC 230V 50/60 Hz
AC 230-400V 50/60Hz



AC 230-400V 50 Hz (B14)
AC 265-460V 60 Hz (B14)



Pred. per mot. idr. gr. 2
Pred for Gr.2 hydraulic mot.

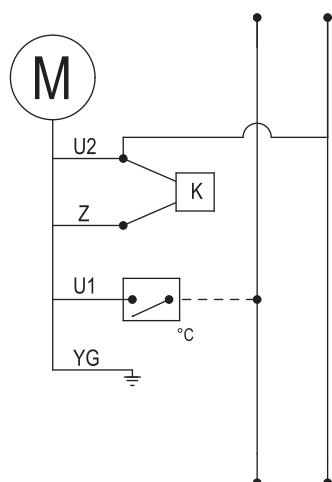


DC 12-24V

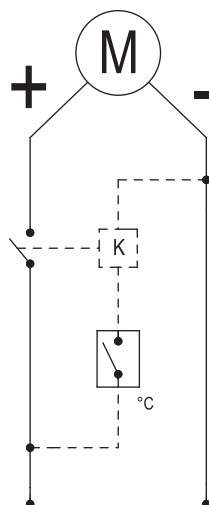
Collegamenti elettrici

Electric Wiring

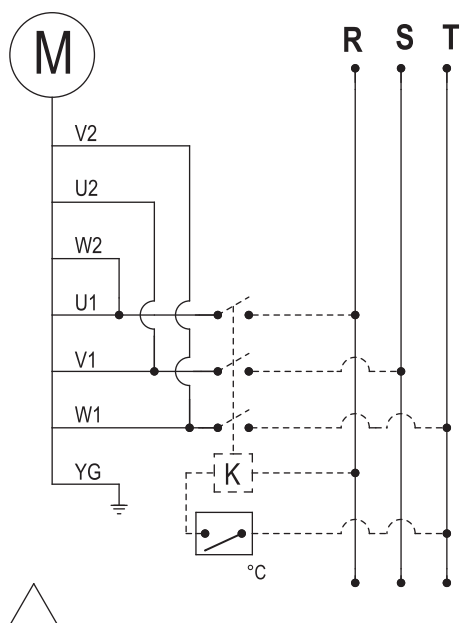
COLLEGAMENTO ELETTRICO 230V MON. AC
230V AC 1PH. ELECTRIC WIRING



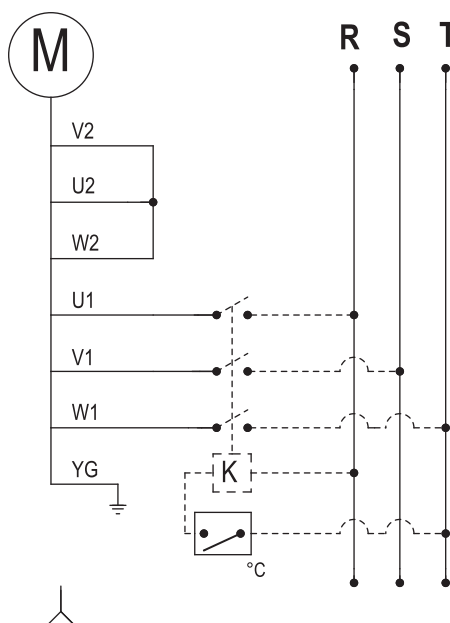
COLLEGAMENTO ELETTRICO 12-24V DC
12-24V DC ELECTRIC WIRING



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



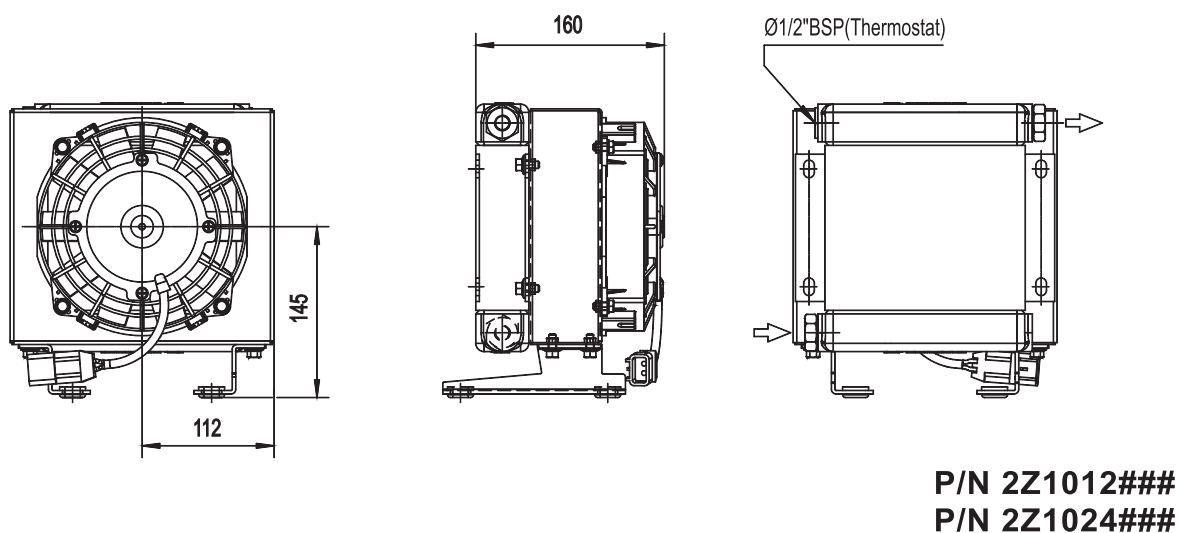
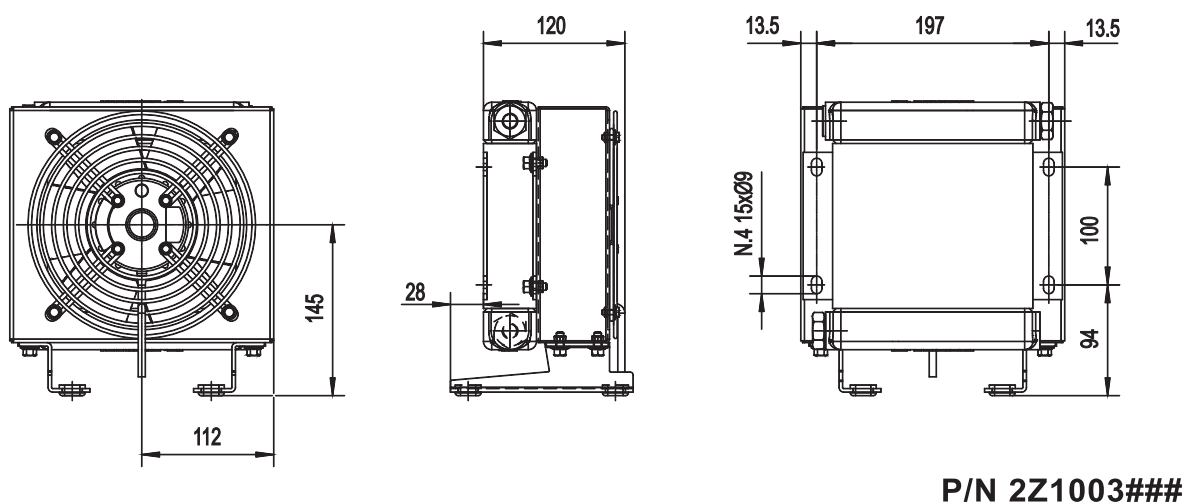
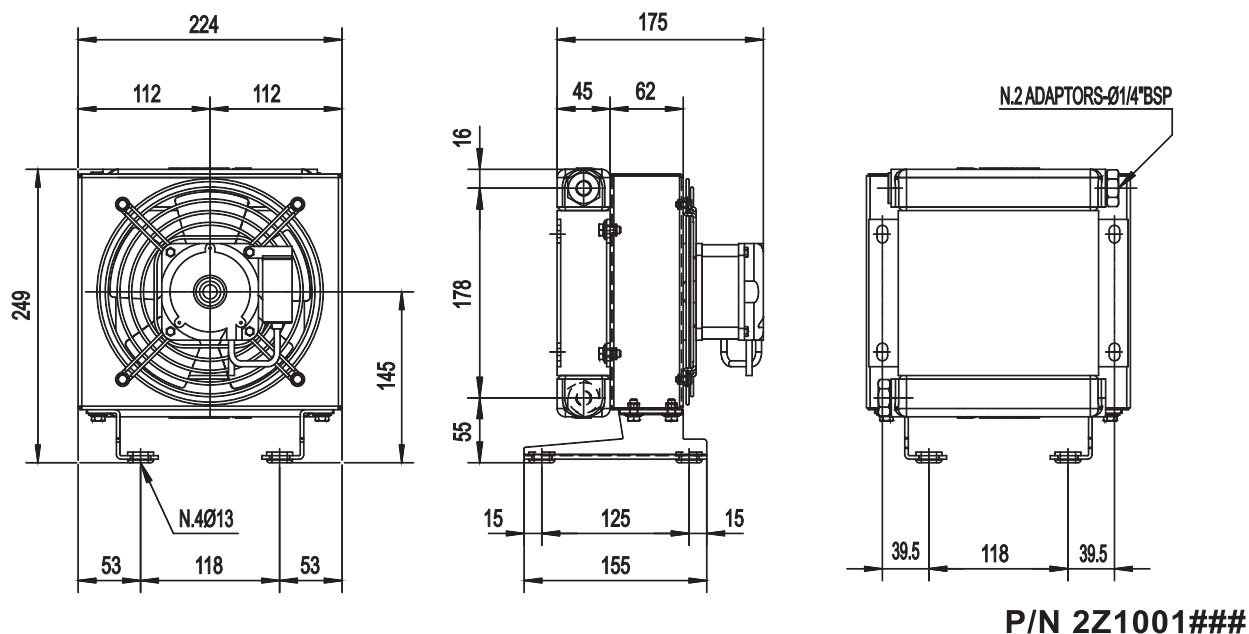
COLLEGAMENTO ELETTRICO 400/460V AC TRIF.
400/460V AC THREEPHASE ELECTRIC WIRING





2000K DRAIN

2010K DRAIN



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

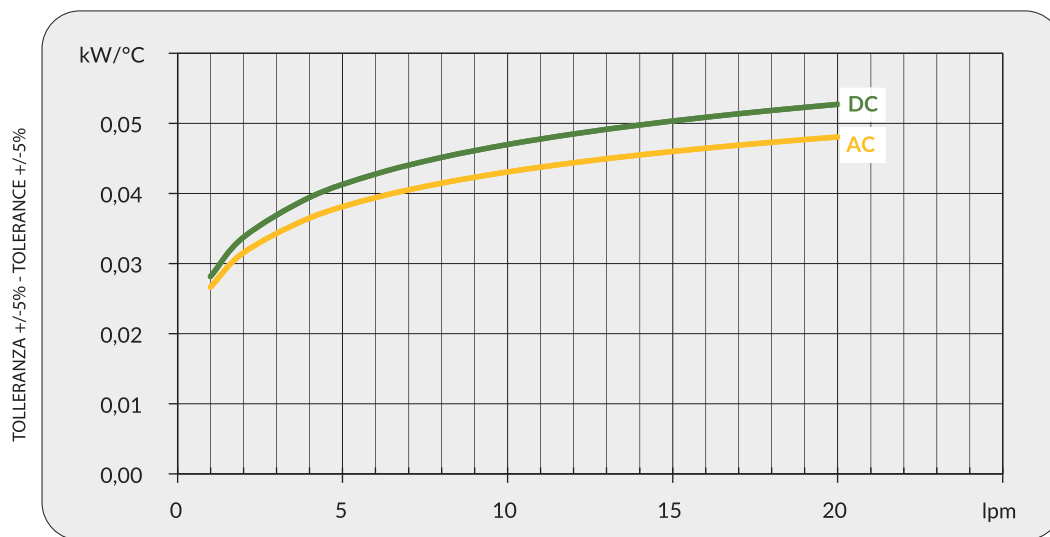


Dati tecnici Technical Data

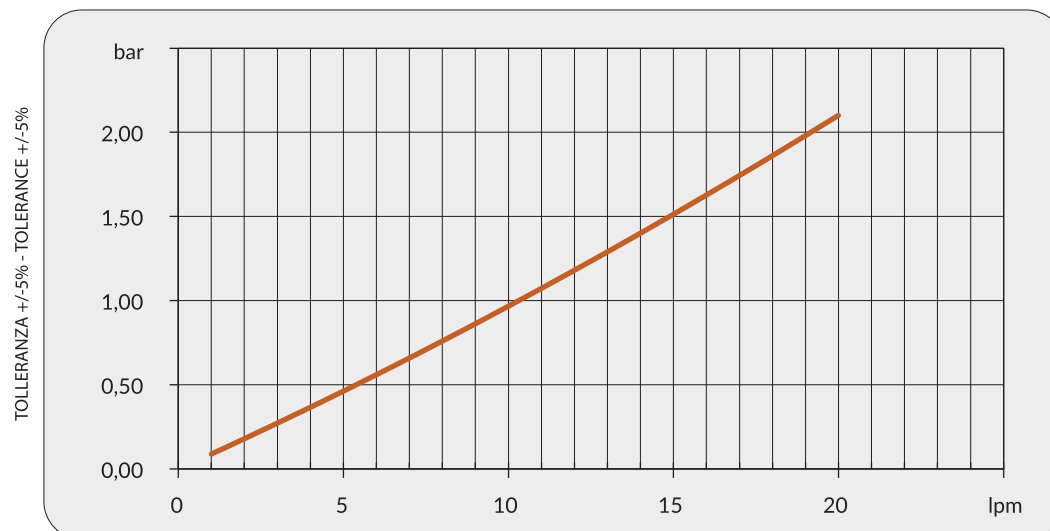
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	lt	kg
2Z1001###	230 AC	50/60	0,010/0,047	0,21	2500	175	67	235	54	0,3	6
2Z1003###	230-400 AC 230-400 AC	50 60	0,045 0,043	0,23 - 0,13 0,16 - 0,09	2750 3100	175	63	190	54	0,3	6
2Z1012###	12 DC	/	0,06	5,2	3860	167	75	410	67	0,3	5
2Z1024###	24 DC	/	0,06	2,3	4045	167	75	410	67	0,3	5

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)

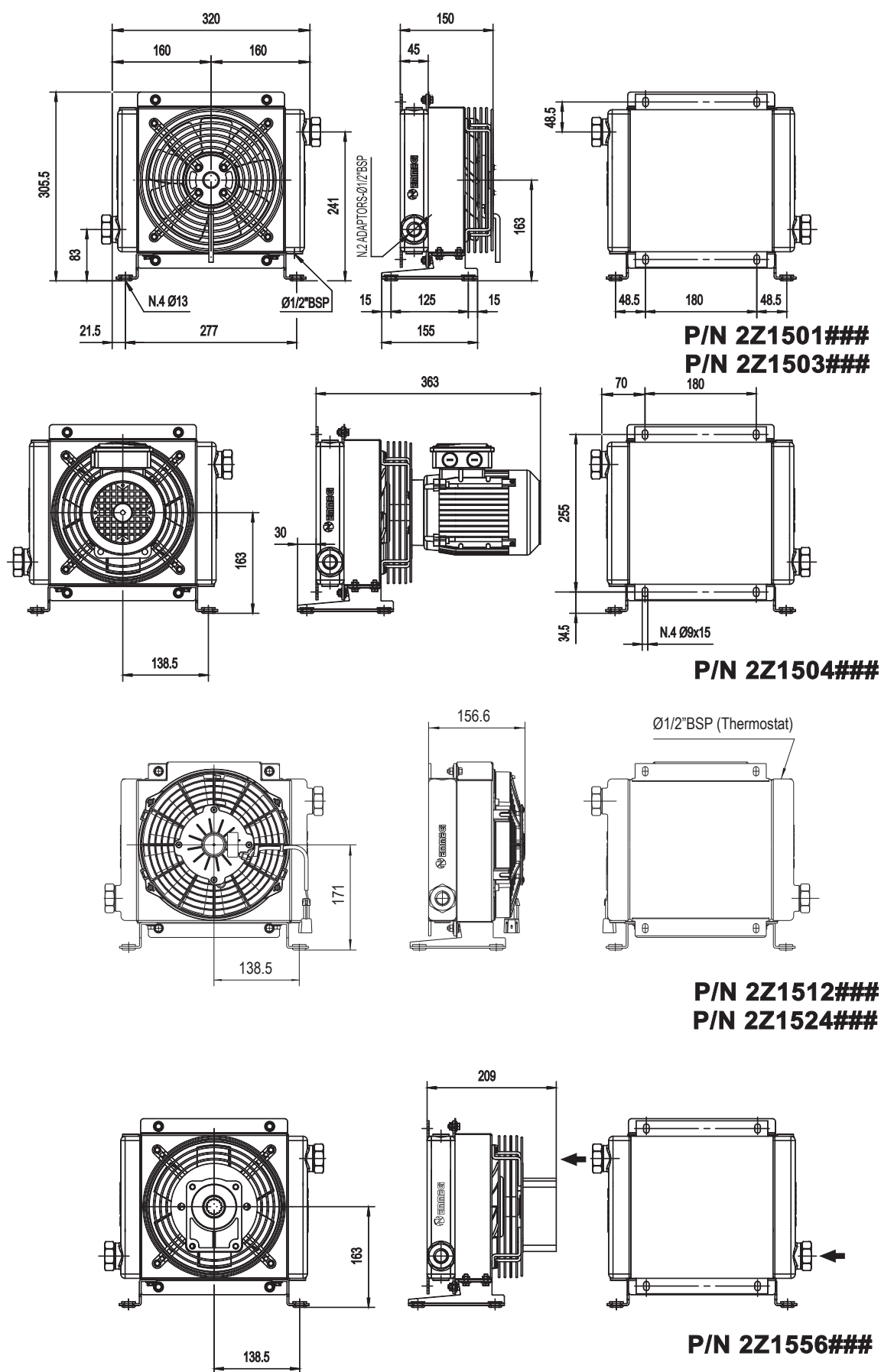


Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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



2000K DRAIN 2015K DRAIN



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

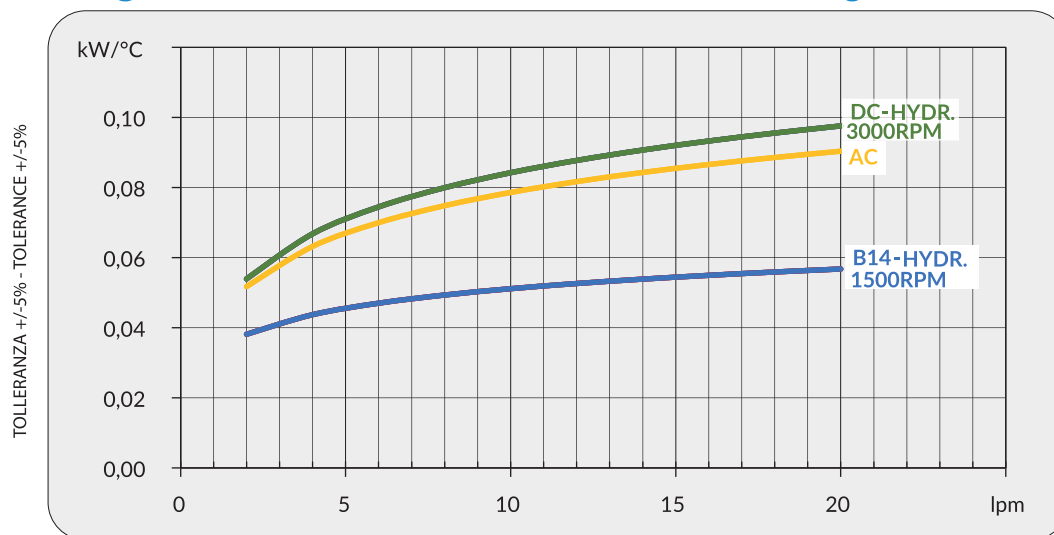


Dati tecnici Technical Data

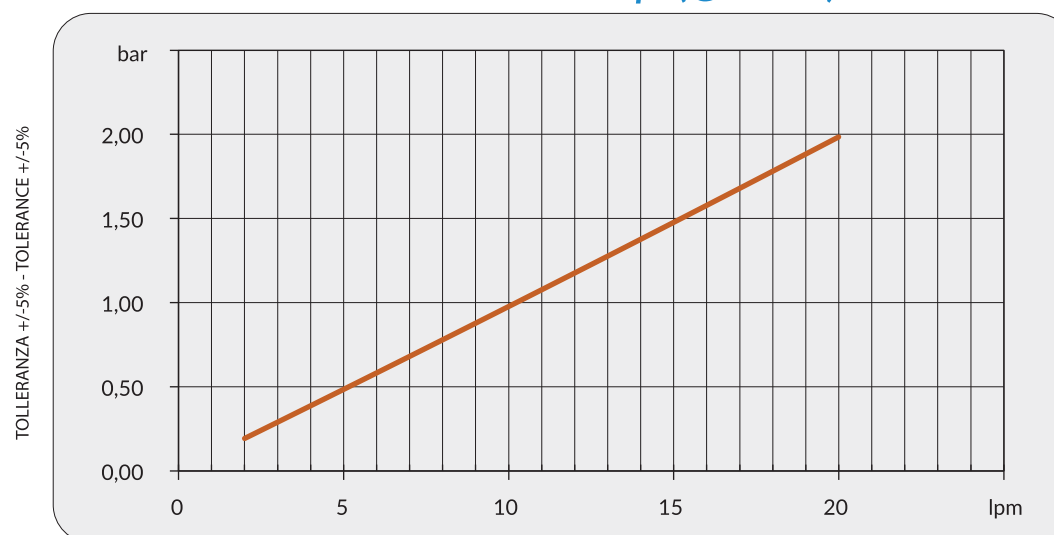
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³ / h)	IP	lt	kg
2Z1501###	230 AC	50/60	0,050/0,061	0,24 - 0,28	2740 - 3120	200	68	700	44	0,5	7
2Z1503###	230-400 AC	50	0,068	0,29 - 0,17	2500	200	69	720	44	0,5	7
	230-400 AC	60	0,070	0,23 - 0,13	2650						
2Z1504###	230-400 AC B14	50	0,25	1,7 - 1	1350	200	61	415	55	0,5	10
	265-460 AC B14	60	0,29	1,7 - 1	1620						
2Z1512###	12 DC	/	0,08	6,4	2770	225	72	790	67	0,5	6,5
2Z1524###	24 DC	/	0,09	3,9	2900	225	73	865	67	0,5	6,5
2Z1556###	Prepared for Gr.2 hydraulic motor					200			/	0,5	6

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



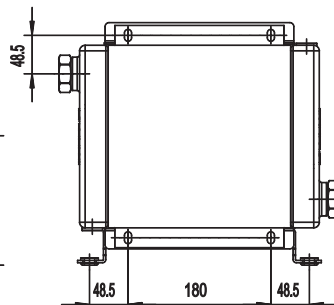
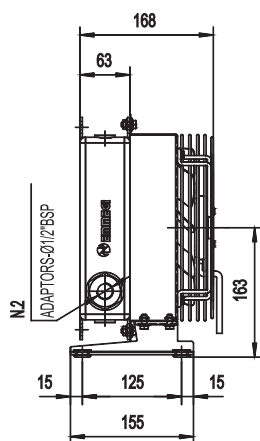
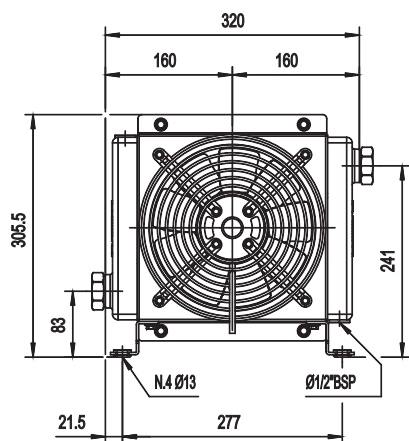
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

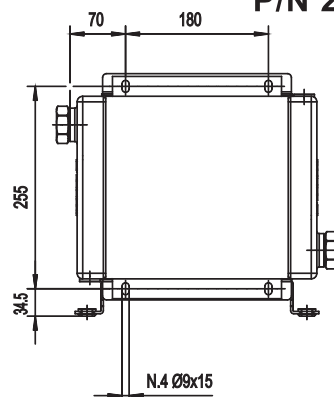
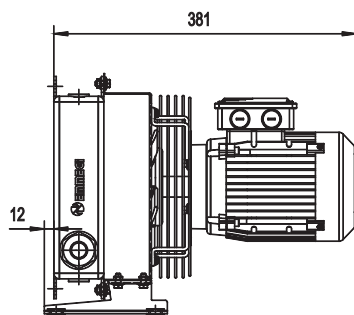
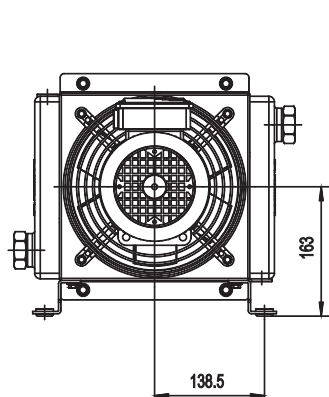


2000K DRAIN

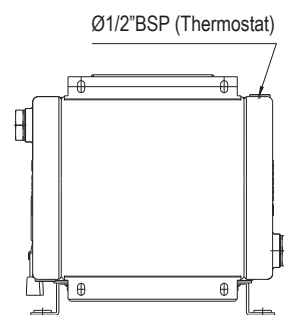
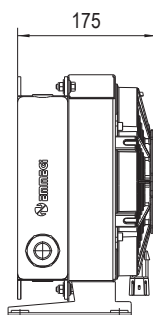
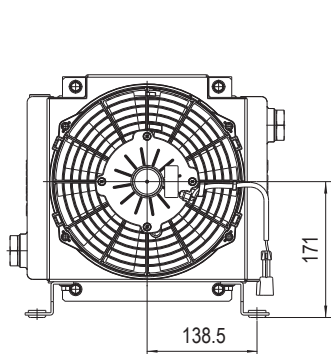
2020K DRAIN



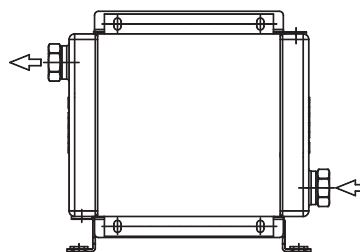
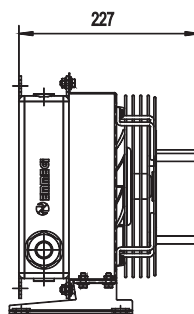
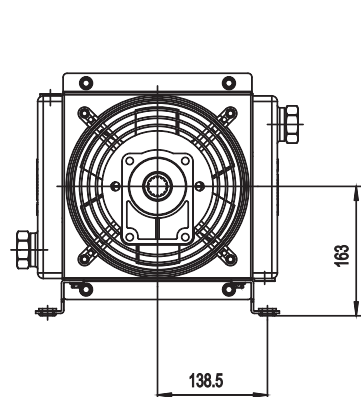
P/N 2Z2001###
P/N 2Z2003###



P/N 2Z2004###



P/N 2Z2012###
P/N 2Z2024###



P/N 2Z2056###

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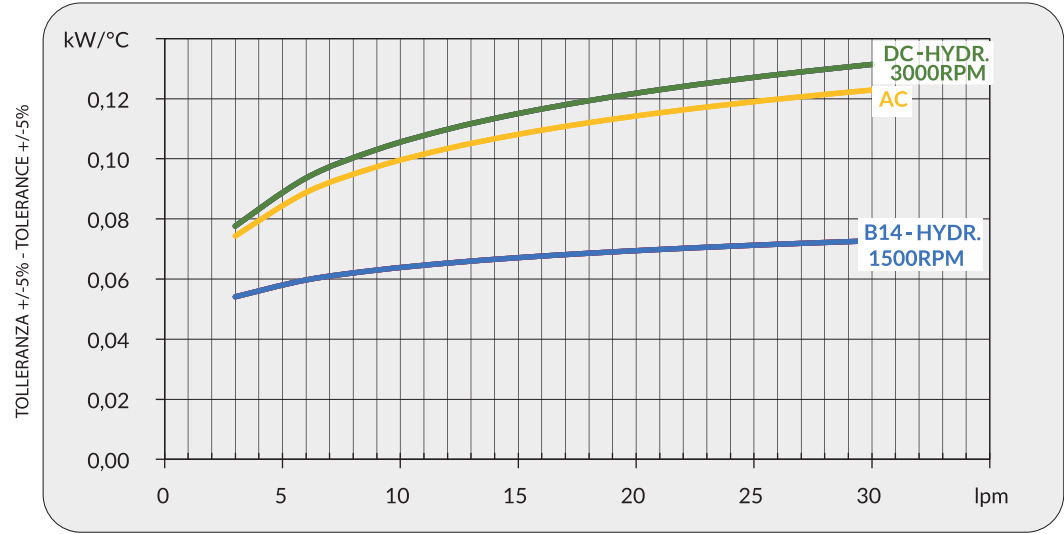


Dati tecnici Technical Data

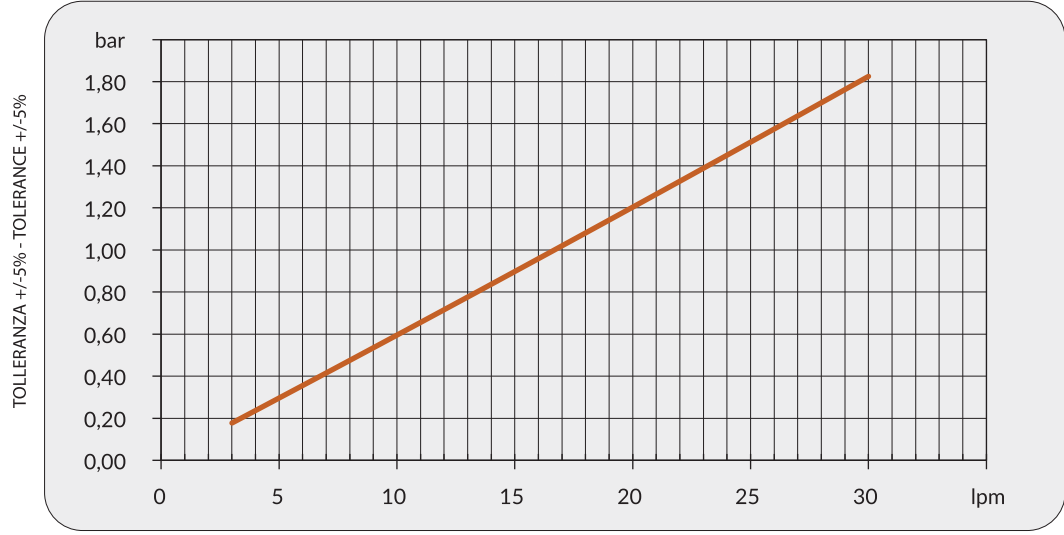
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2Z2001###	230 AC	50/60	0,050/0,061	0,24 - 0,28	2740 - 3120	200	68	675	44	0,7	8
2Z2003###	230-400 AC	50	0,068	0,29 - 0,17	2500	200	68	645	44	0,7	8
	230-400 AC	60	0,070	0,23 - 0,13	2650						
2Z2004###	230-400 B14	50	0,25	1,7 - 1	1350	200	64	390	55	0,7	11
	265-460 B14	60	0,29	1,7 - 1	1620						
2Z2012###	12 DC	/	0,08	6,4	2770	225	72	720	67	0,7	7
2Z2024###	24 DC	/	0,09	3,9	2900	225	72	750	67	0,7	7
2Z2056###	Prepared for Gr.2 hydraulic motor					200			/	0,7	7

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



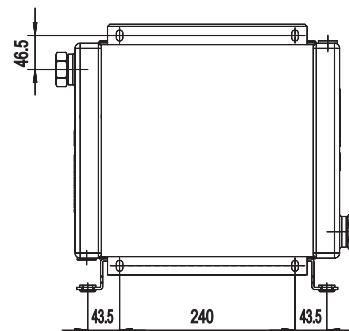
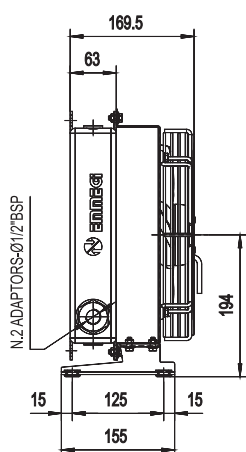
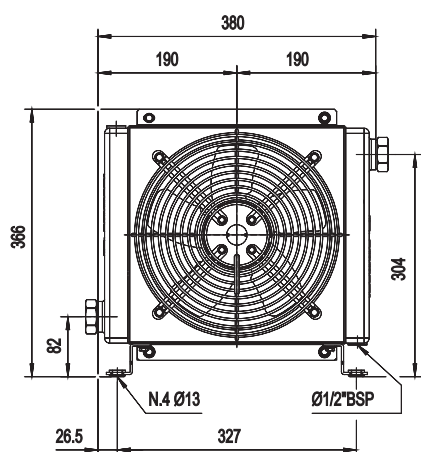
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

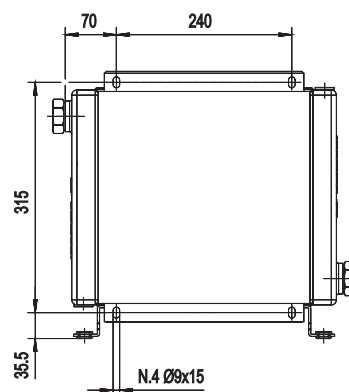
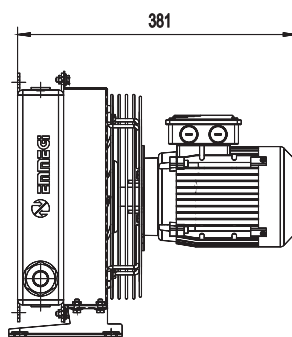
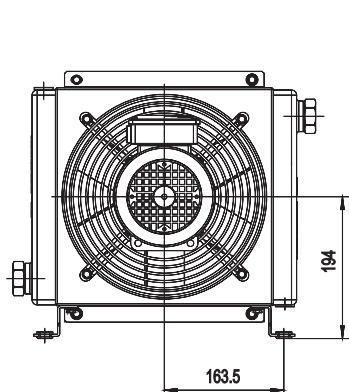


2000K DRAIN

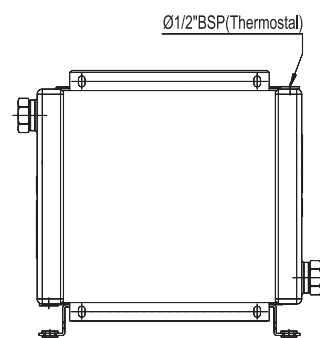
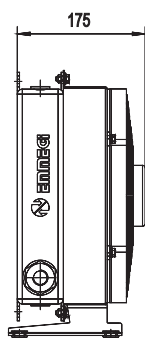
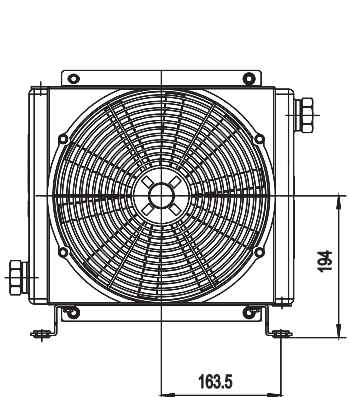
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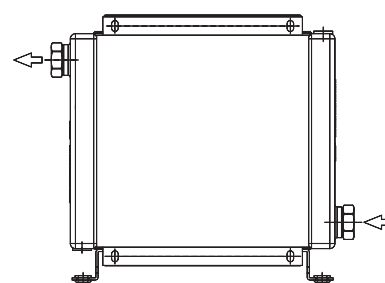
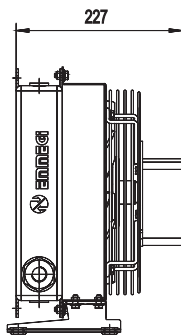
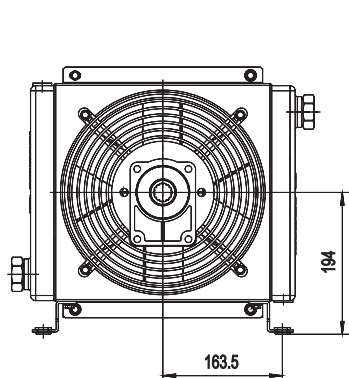
P/N 2Z2401###
P/N 2Z2403###



P/N 2Z2404###



P/N 2Z2412###
P/N 2Z2424###



P/N 2Z2456###

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

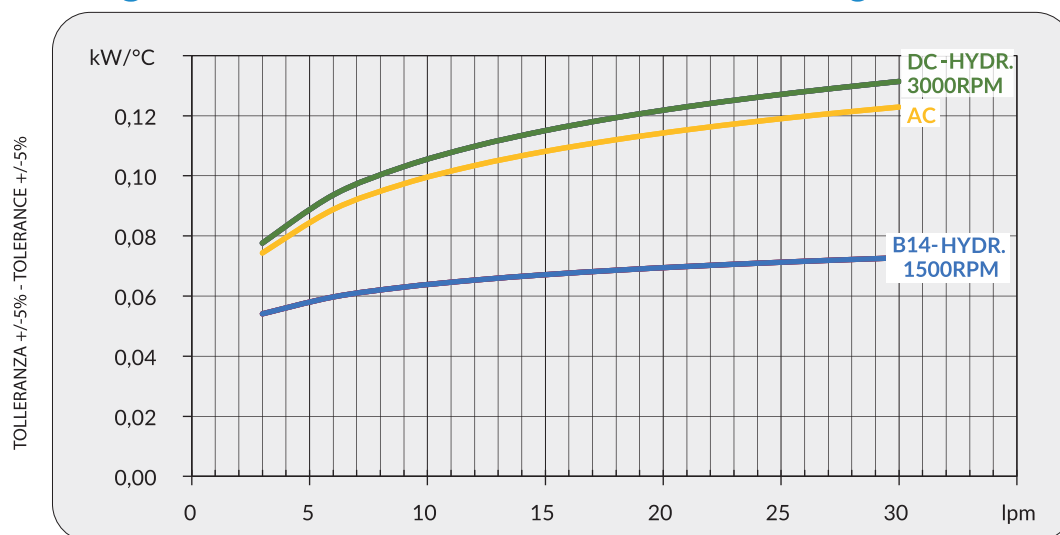


Dati tecnici Technical Data

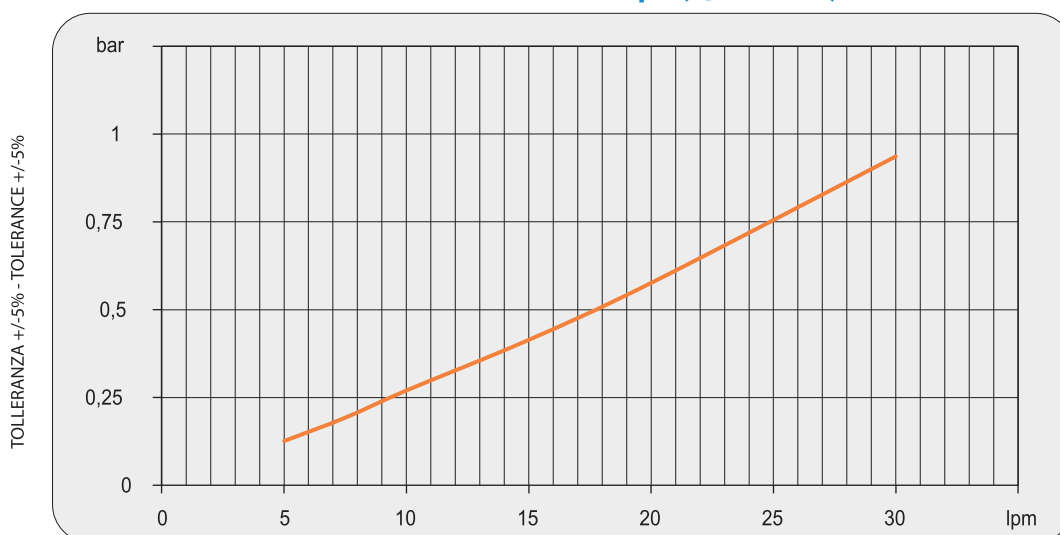
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2Z2401###	230 AC	50/60	0,115/0,150	0,51 - 0,66	2450-2600	250	72	1350	44	1	11
2Z2403###	230-400 AC	50	0,105	0,33 - 0,19	2600	250	72	1300	44	1	11
	230-400 AC	60	0,145	0,39 - 0,23	2900						
2Z2404###	230-400 B14	50	0,25	1,7 - 1	1350	250	64	1000	55	1	16
	265-460 B14	60	0,29	1,7 - 1	1620						
2Z2412###	12 DC	/	0,09	7,5	2710	280	72	950	67	1	10
2Z2424###	24 DC	/	0,10	4,3	2765	280	74	1030	67	1	10
2Z2456###	Prepared for Gr.2 hydraulic motor					250			/	1	10

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



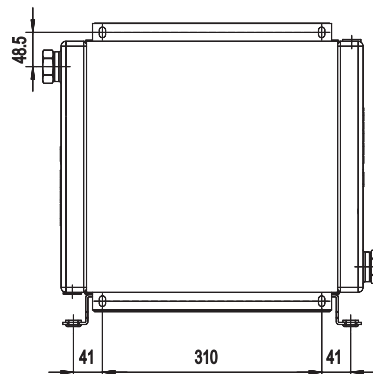
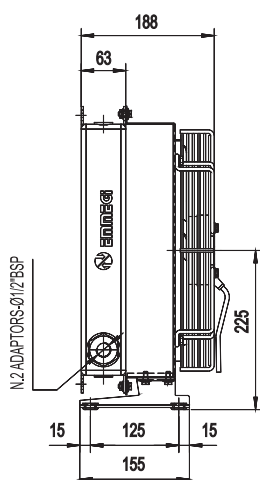
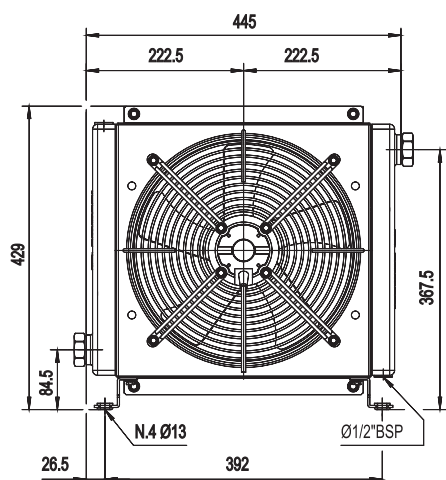
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

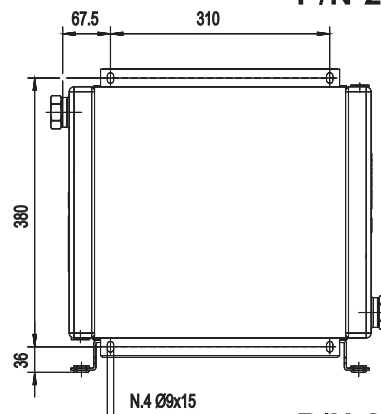
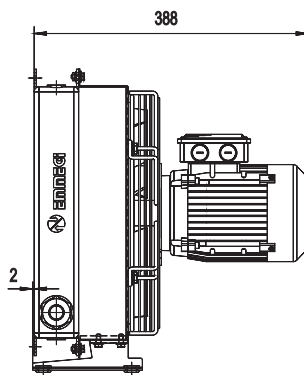
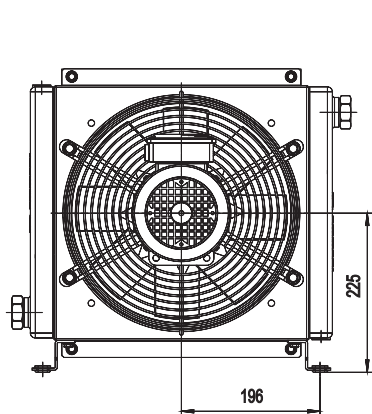


2000K DRAIN

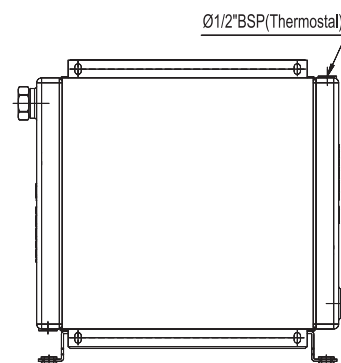
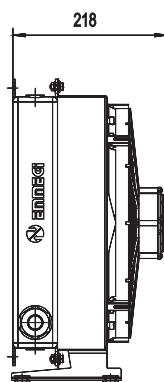
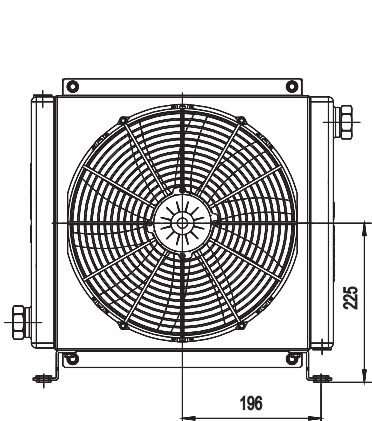
2030K DRAIN



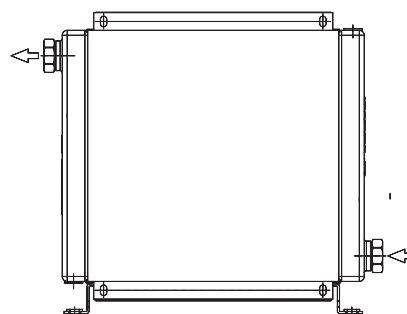
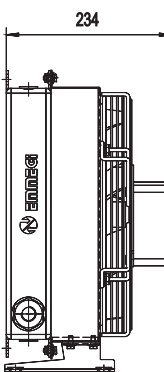
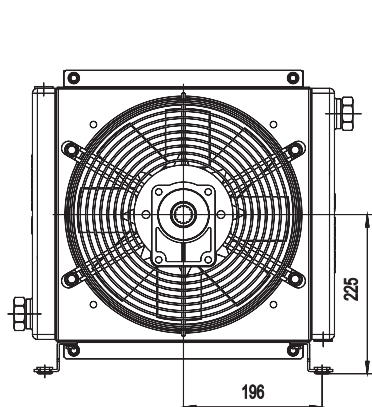
P/N 2Z3001###
P/N 2Z3003###



P/N 2Z3004###



P/N 2Z3012###
P/N 2Z3012###



P/N 2Z3056###

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

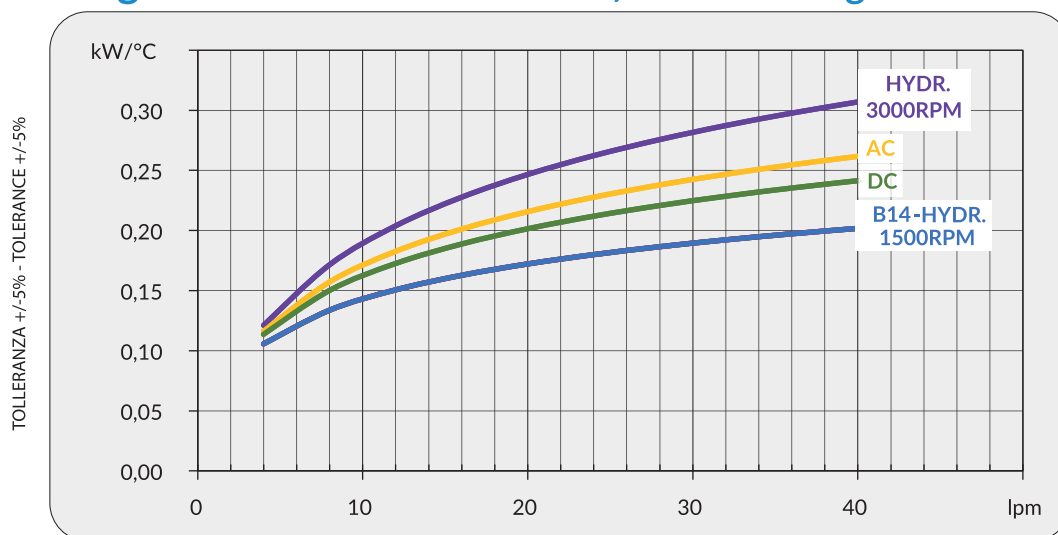


Dati tecnici Technical Data

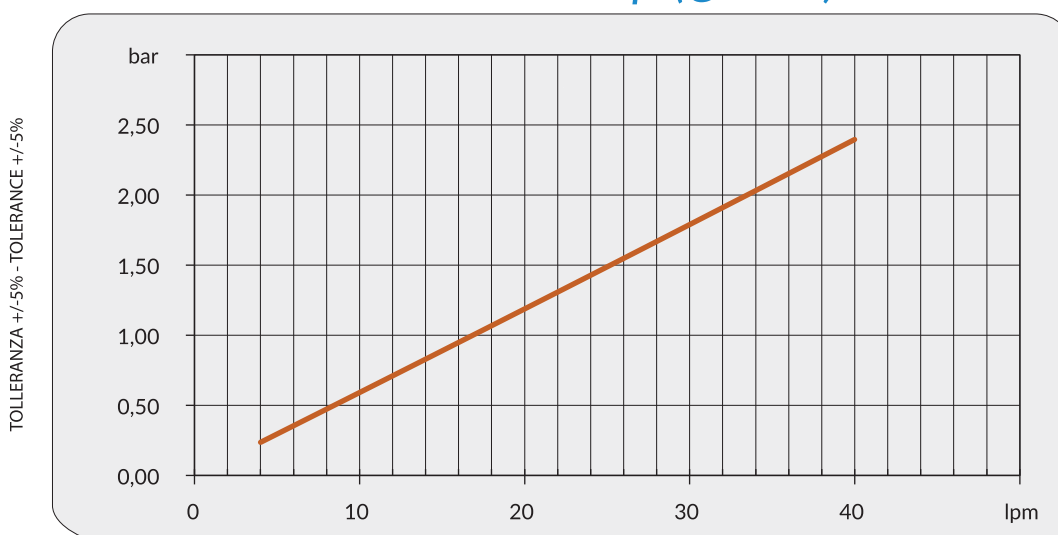
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	lt	kg
2Z3001###	230 AC	50/60	0,23/0,35	1,1 - 1,55	2700-3000	300	78	2220	44	1,6	15
2Z3003###	230-400 AC	50	0,21	0,62 - 0,36	2580	300	76	2500	44	1,6	15
	230-400 AC	60	0,30	0,84 - 0,48	2750						
2Z3004###	230-400 B14	50	0,37	2,1 - 1,1	1370	300	70	1850	55	1,6	20
	265-460 B14	60	0,43	2,1 - 1,1	1650						
2Z3012###	12 DC	/	0,16	13,3	2660	305	80	1675	67	1,6	14
2Z3024###	24 DC	/	0,18	7,4	2870	305	83	1880	67	1,6	14
2Z3056###	Prepared for Gr.2 hydraulic motor					300			/	1,6	15

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Diagramma rendimento Performance diagram



Perdite di carico Pressure drop (@30cSt)



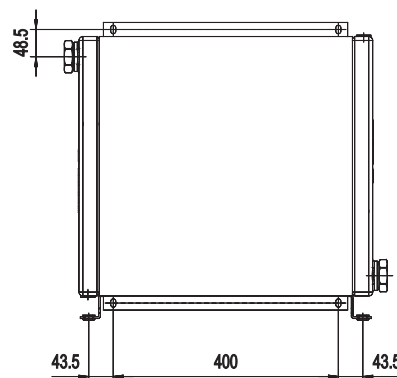
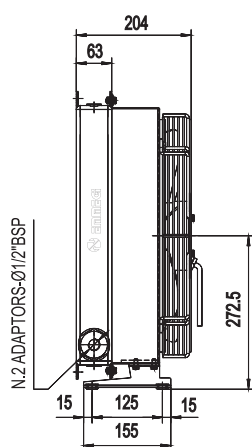
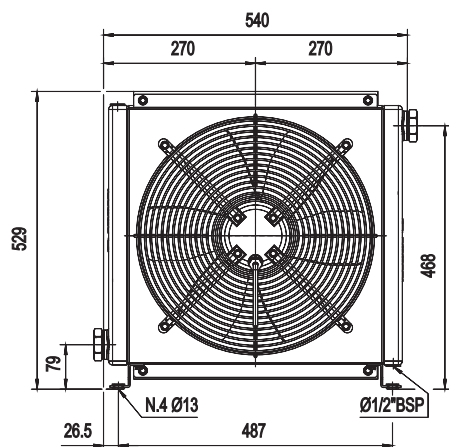
Fattore di correzione-F-(perdite di carico) Correction factor-F-(pressure drop)

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

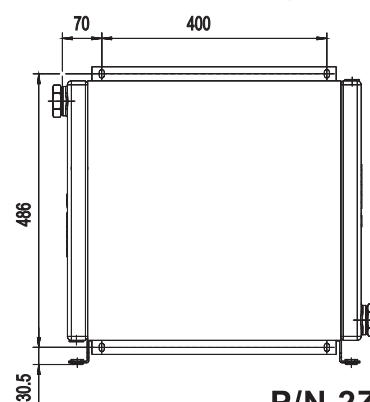
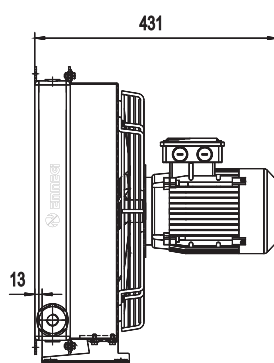
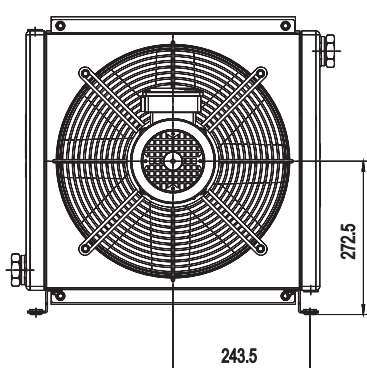


2000K DRAIN

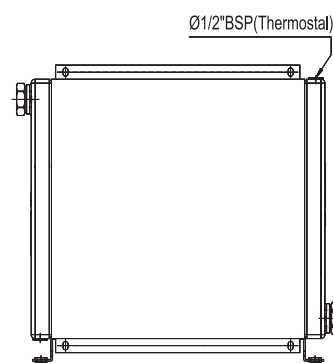
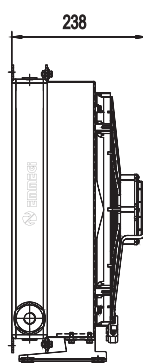
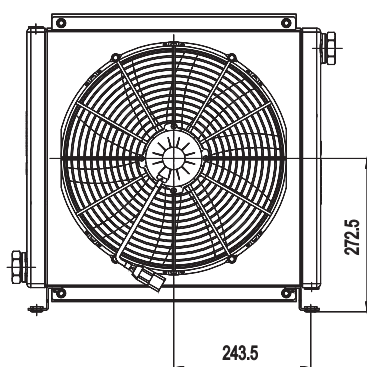
2040K DRAIN



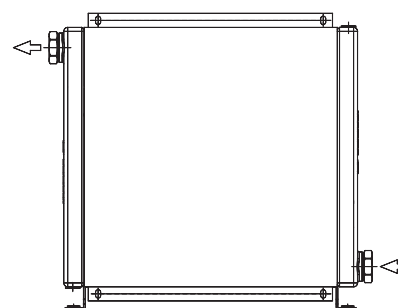
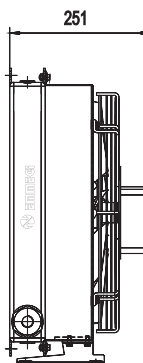
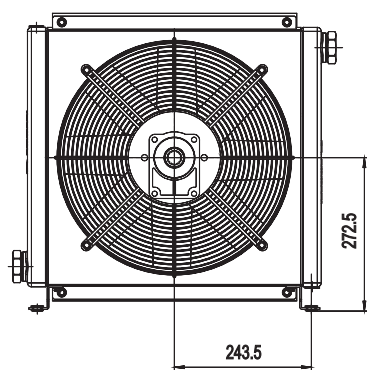
P/N 2Z4001###
P/N 2Z4003###



P/N 2Z4004###



P/N 2Z4012###
P/N 2Z4024###



P/N 2Z4056###

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

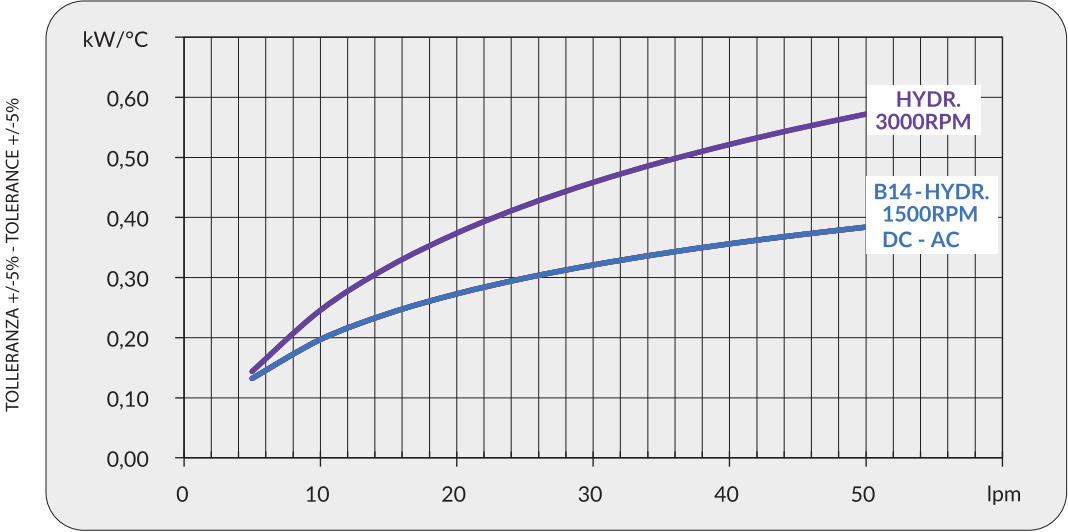


Dati tecnici *Technical Data*

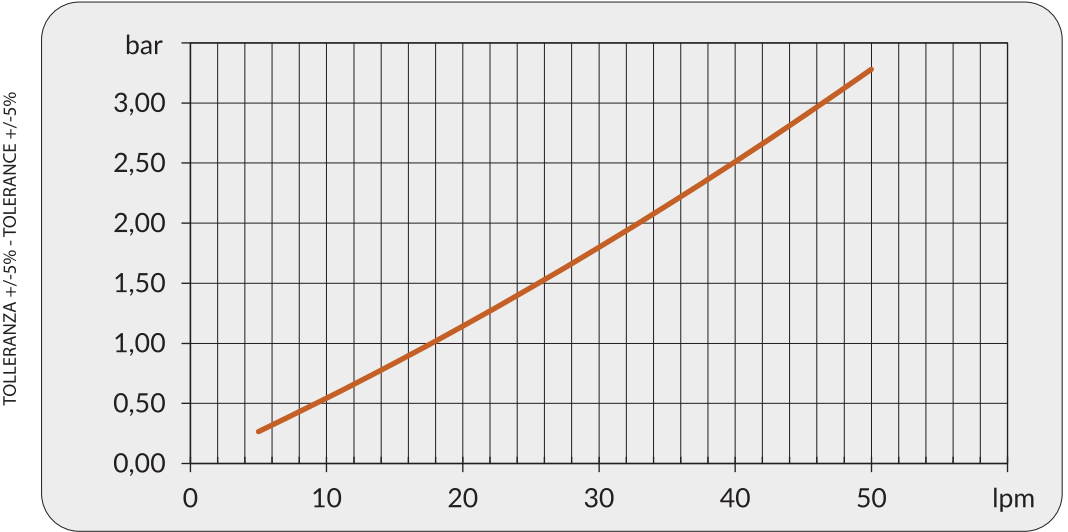
P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³ / h)	IP	lt	kg
2Z4001###	230 AC	50	0,16/0,24	0,73 - 1,06	1430-1700	400	71	3200	54	2,7	21
2Z4003###	230-400 AC	50	0,135	0,76 - 0,39	1450	400	71	3200	54	2,7	21
	230-400 AC	60	0,185	0,68 - 0,39	1690						
2Z4004###	230-400 B14	50	0,55	2,9 - 1,7	1320	400	77	3740	55	2,7	25
	265-460 B14	60	0,63	2,9 - 1,7	1690						
2Z4012###	12 DC	/	0,22	19,2	2310	385	76	2770	67	2,7	20
2Z4024###	24 DC	/	0,23	9,3	2380	385	79	2910	67	2,7	20
2Z4056###	Prepared for Gr.2 hydraulic motor					400			/	2,7	19

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Diagramma rendimento *Performance diagram*



Perdite di carico *Pressure drop (@30cSt)*



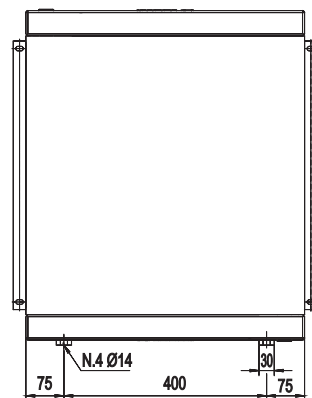
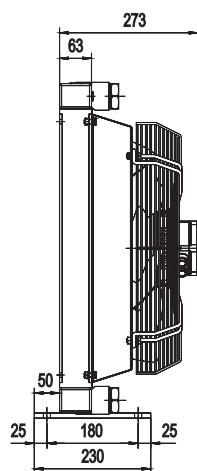
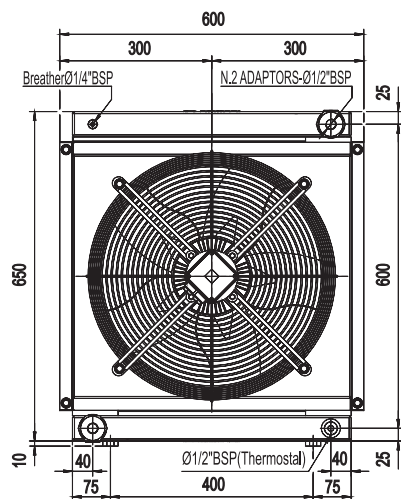
Fattore di correzione-F-(perdite di carico) *Correction factor-F-(pressure drop)*

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



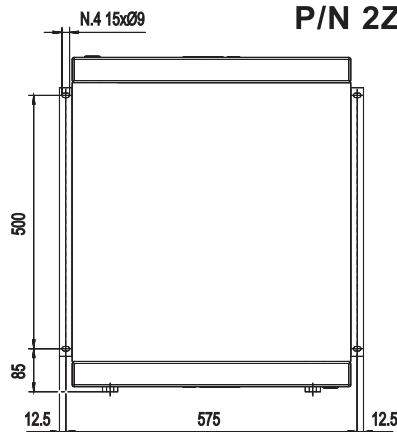
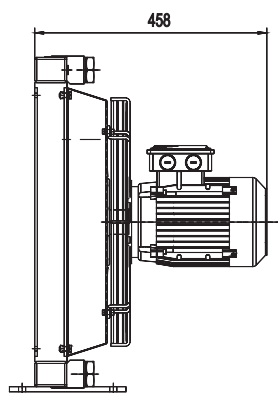
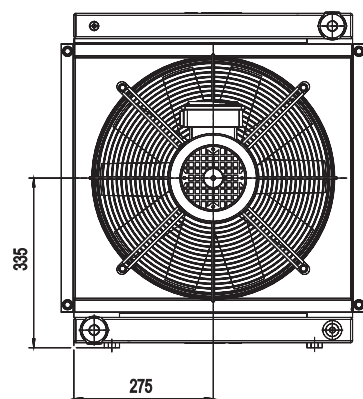
2000K DRAIN

2050K DRAIN

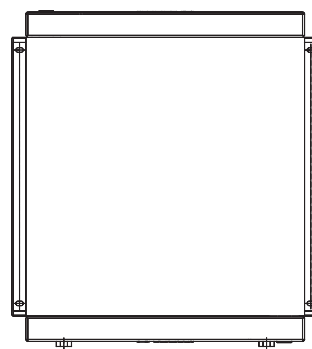
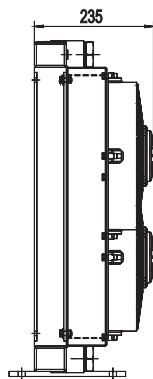
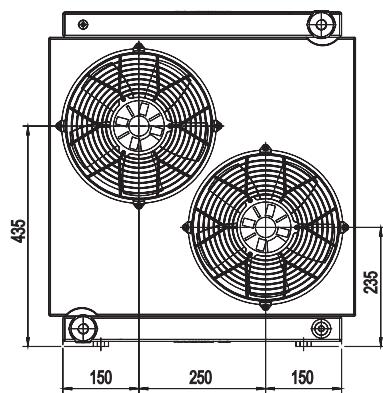


P/N 2Z5001###

P/N 2Z5003###

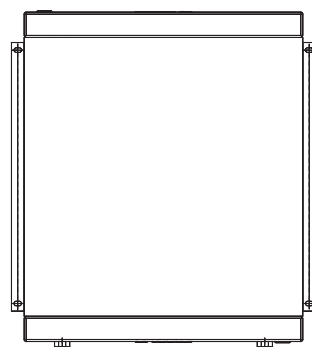
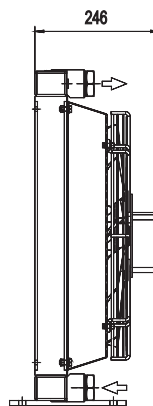
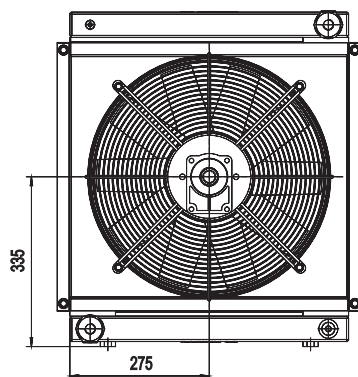


P/N 2Z5004###



P/N 2Z5012###

P/N 2Z5024###



P/N 2Z5056###

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



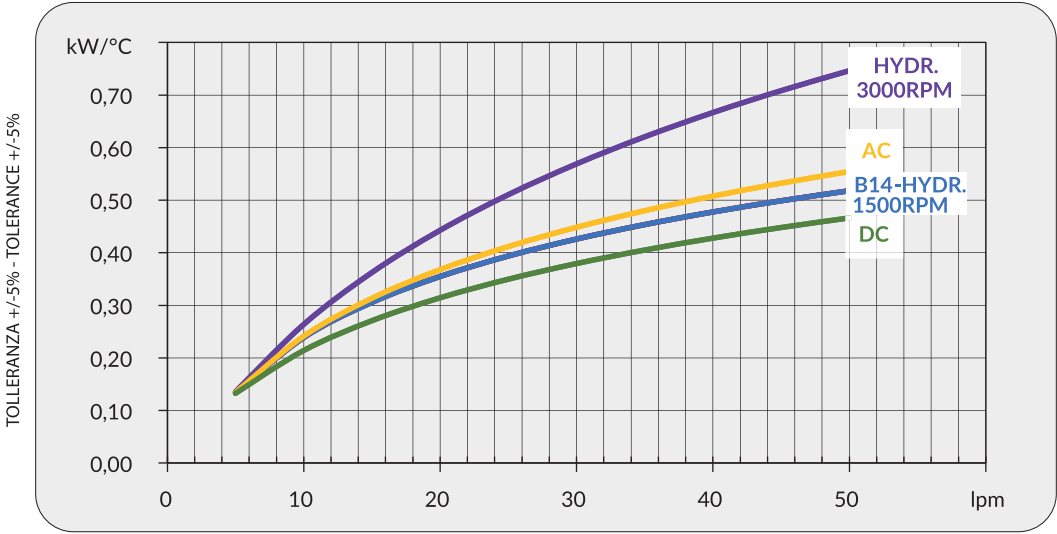
Dati tecnici *Technical Data*

P/N	V	Hz	kW(±10%)	A(±10%)	rpm	Ø Fan	dB (A)	(m³/ h)	IP	lt	kg
2Z5003###	230-400 AC	50	0,52	1,9 - 1,1	1450	450	76	5000	54	5	27
	230-400 AC	60	0,66	2-1,2	1690						
2Z5004###	230-400 AC B14	50	0,75	3,0 - 1,7	1450	450	79	5200	55	5	30
	265-460 AC B14	60	0,86	3,0 - 1,7	1750						
2Z5012###	12 DC	/	0,13	11,0	2340	280	76	1720	67	5	24
2Z5024###	24 DC	/	0,15	6,2	2600	280	79	1750	67	5	24
2Z5056###	Prepared for Gr.2 hydraulic motor					450			/	5	23

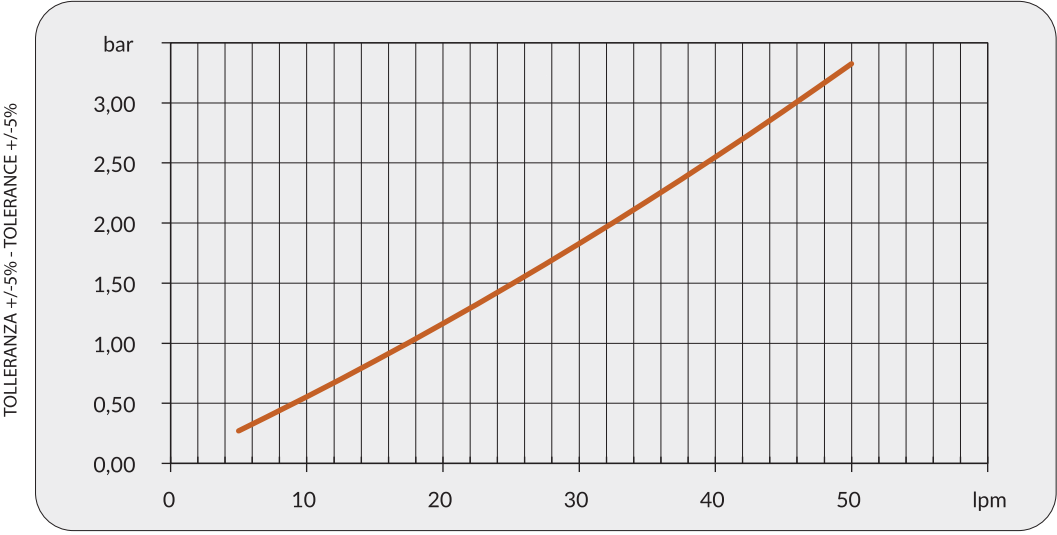
I dati si riferiscono al singolo ventilatore
Data refers to each fan

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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

