SERIE RO

Scambiatori di calore ARIA/OLIO

AIR/OIL heat exchangers

SERIE RO

Il presente catalogo illustra gli scambiatori di calore della serie RO costruiti in acciaio e rame.
Ogni scheda fornisce i dati tecnici relativi allo scambiatore impiegato per il raffreddamento di circuiti oleodinamici e ai ventilatori azionati da motore elettrico o idraulico.

Caratteristiche tecniche massa radiante:

Materiale: acciaio e rame
Pressione di esercizio: 15 bar
Pressione di collaudo: 22 bar
Temperatura massima di esercizio: 120°C

INSTALLAZIONE

Lo scambiatore deve essere installato in modo tale da evitare la presenza di ostacoli alla circolazione dell'aria, rispettando la distanza minima dalla parete (1/2 diametro ventola) in modo da assicurare il naturale flusso dell'aria di raffreddamento. Può essere montato sia in posizione orizzontale che verticale.

Gli scambiatori di calore aria/olio RO sono normalmente utilizzati per il raffreddamento di circuiti oleodinamici e installati sulle linee di ritorno, devono essere protetti da urti e vibrazioni meccaniche mediante supporti elastici e collegati all'impianto mediante tubi flessibili.

Per evitare danni che brusche variazioni di portata o eventuali colpi d'ariete o pulsazioni continue arrecano agli scambiatori.

FLUIDI COMPATIBILI

- Oli minerali

MANUTENZIONE

Pulizia lato olio

Dopo aver smontato lo scambiatore effettuare la pulizia facendo circolare all'interno del radiatore un prodotto sgrassante compatibile con leghe d'acciaio.
Effettuare un lavaggio con olio idraulico prima di ricollegare lo scambiatore all'impianto.

Pulizia lato aria

Eseguire questa operazione mediante aria compressa. Assicurarsi che la direzione del getto sia parallela alle alette per non danneggiarle.
Se l'intasamento dello scambiatore è causato da un accumulo di olio o di grasso, la pulizia potrà essere effettuata con un getto di vapore o di acqua calda.
Durante le operazioni di pulizia il motore elettrico dovrà essere convenientemente protetto.

SICUREZZA

Nell'utilizzo dello scambiatore occorre attenersi ad alcune importanti avvertenze:

- Non togliere le protezioni delle ventole
- Far eseguire i collegamenti elettrici a personale specializzato seguendo gli schemi allegati
- Le superfici esterne dello scambiatore potrebbero avere temperature molto elevate, occorre quindi prevedere nel montaggio adeguate protezioni o posizionamenti poco accessibili
- Non intervenire sul motore idraulico senza prima aver scollegato i tubi

ESEMPIO DI SCELTA DELLO SCAMBIATORE

Per effettuare la scelta dello scambiatore si procede secondo l'esempio seguente:

- Potenza da dissipare: 8 kW
- Portata olio ISO VG 46: 50 lt/1'
- Temperatura ingresso olio: 80°C
- Temperatura ambiente: 40°C
- Ventilatore elettrico 12 Volt

Occorre calcolare il coefficiente di scambio termico espresso in KW/°C dividendo la potenza da dissipare, per la differenza di temperatura tra olio e ambiente:

8KW : 40 °C (80°C-40°C)= 0,20 kW/°C

Occorre valutare sui diagrammi di rendimento quale scambiatore a corrente continua esprime la potenza specifica risultante (0,20kW/°C) con una portata di 50 lt/1'.

This catalogue describes RO SERIES COOLERS made of copper and steel.
Each data sheet provides the technical information about the heat exchanger used for cooling oil hydraulic system and about fans operated by electric or hydraulic motor

Core's technical specification:

Material: copper and steel
Working pressure: 15 bar
Test pressure: 22 bar
Max working temperature: 120°C

INSTALLATION

The heat exchanger should be installed in such a way that there should be no obstacles to the air flow, respecting the minimum distance from the wall (1/2 fan diameter) so as to ensure a natural flow of cooling air.

The cooler can be fitted in vertical and horizontal position.
RO series coolers are normally used for cooling hydraulic circuits and installed on the return lines: they must be protected from impact and mechanical vibrations by support and must be connected to the circuit with flexible pipes.
To prevent any damage caused by changes in flow, hammering and pulsations we recommend installing a by-pass valve.

COMPATIBLE FLUIDS

- Mineral oils

MAINTENANCE

Cleaning oil side

After having dismantled the exchanger, carry out the cleaning procedure by circulating de-greasing substance inside the radiator compatible with steel. Wash with hydraulic oil before reconnecting the cooler.

Cleaning air side

Carry out this procedure using compressed air. Make sure that the direction of the jet is parallel to the fins so that they are not damaged.
If the blockage of the exchanger is caused by build up of oil or grease, c1eaning can be carried out using a jet of steam or hot water.

During c1eaning procedures the electric motor must be adequately protected.

SAFETY

- Do not remove the fan grilles
- Electrical connections must be made by skilled electricians in accordance with the attached electrical diagrams
- Exterior surfaces of heat exchangers may reach high temperatures so adequate guards must be installed or the unit must be mounted in an inaccessible position
- Do not perform work on the hydraulic motor until the hydraulic pipelines have been disconnected

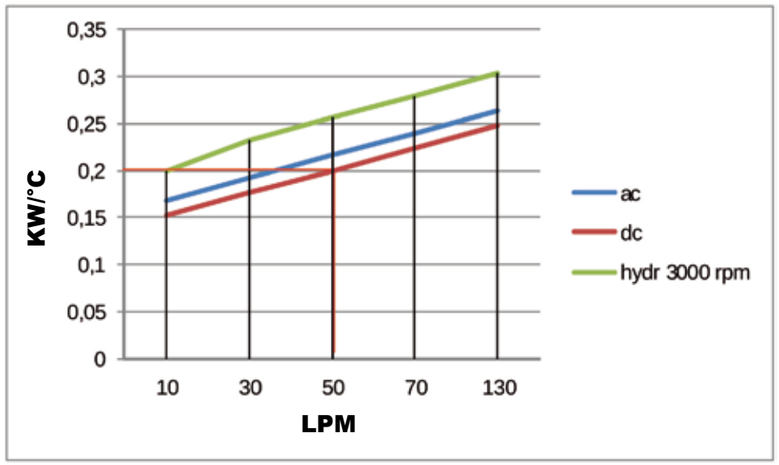
HOW TO CHOOSE RIGHT HEAT EXCHANGER

To choose right heat exchanger follows the below example:
Power to dissipate: 8 KW
Oil flow ISO VG 46: 50 lt/1'
Inlet oil temperature: 80°C
Ambient temperature: 40°C
Electric fan 12 Volt

You can calculate the specific coefficient of heat exchange (kW/°C) if you divide the power to dissipate with the difference between oil input temperature and ambient temperature:

8KW : 40 °C (80°C-40°C)= 0,20 kW/°C

Note the oil flow (50 lt/1') and specific exchange power (0,20 kW/°C) and research the cooler that has in performance diagram this result with direct electric fan.



Lo scambiatore selezionato è il modello
RO60/V4 – 12/24 V.
Per la corretta denominazione del prodotto consultare la scheda di CODIFICA PRODOTTO.
Se non sono conosciuti tutti i dati contattare IRA RADIATORI.

The selected heat exchanger is model
RO60/V4 – 12/24 V.
For a complete description of heat exchanger consul the PRODUCT ORDERING CODE page.
If you don't know all required data for selecting cooler, please contact IRA RADIATORI.

Codifica prodotto serie RO
Ordering code RO series

R O 6 0 / V 4 V 1 2 A 4 0 X X

Serie Series	Modello Model	Ventilazione Fan	A/S	TERM.	ACC/MOD

RO = RADIATORE OLIO ACCIAIO/RAME / OIL COOLER COPPER AND STEEL

V12 VCC
V24 VCC
V230 VAC
V400 VAC
V230/400 VAC B14
GR1
GR2

A = ASPIRANTE/SUCKING
S= SOFFIANTE/BLOWING

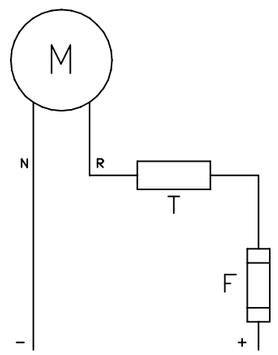
TERMOSTATI/THERMOSTAT
30 = 30/38°
40 = 40/48°
50 = 50/60°

ACCESSORI / MODIFICHE
COMPLEMENTS/MODIFICATIONS
P = PIEDI /FEETS
A= MODIFICA SULLO STANDARD
A= CHANGE ON STANDARD VERSION

ESEMPIO:
RO60/V412V40
MODELLO RO60/V4 COMPLETO DI ELETTROVENTOLA 12 VOLT ASPIRANTE E TERMOSTATO FISSO T40/48°C .

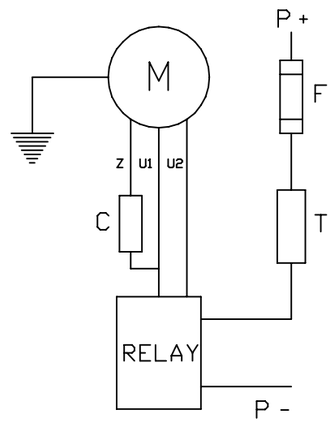
EXAMPLE:
RO60/V412V40
MODEL RO60/V4 COMPLETE WITH ELECTRIC FAN 12V SUCHING, FIXED THERMOSTAT T40/48°C.

CABLAGGIO 12/24 V - C.C.
12/24 V D.C. WIRING



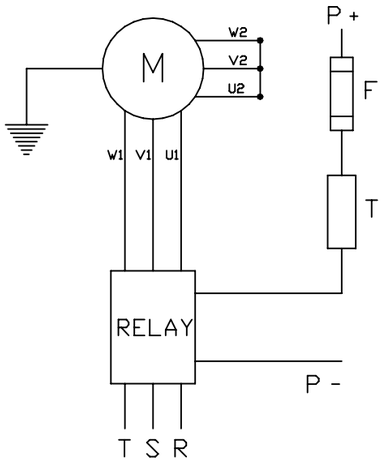
N - NERO / BLACK
R - ROSSO / RED
T - TERMOSTATO / THERMO SWITCH
F - FUSIBILE / FUSE

CABLAGGIO 230 V - C.A.
230 V A.C. WIRING



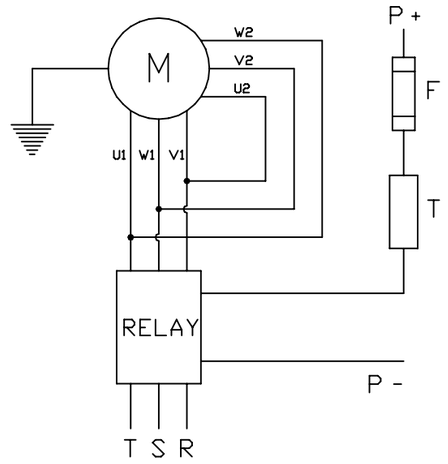
Z - MARRONE / BROWN
U1 - NERO / BLACK
U2 - VERDE / GREEN
T - TERMOSTATO / THERMO SWITCH
F - FUSIBILE / FUSE
P - ALIMENTAZIONE A RELE' / RELAY CURRENT SUPPLY
C - CONDENSATORE / VOLT CAPACITOR

CABLAGGIO 230/400 V A STELLA
230/400V STAR WIRING

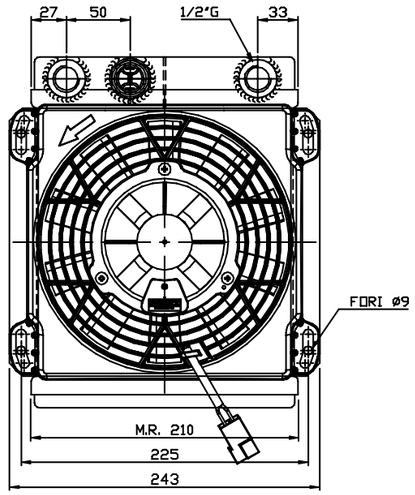


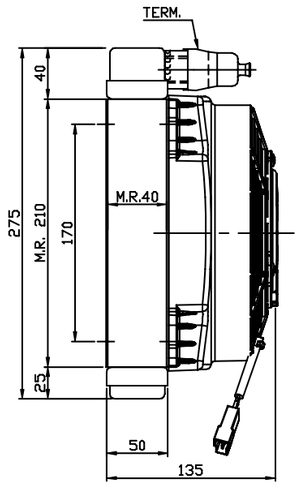
U1 - NERO / BLACK
U2 - VERDE/ GREEN
V1 - AZZURRO / BLUE
V2 - BIANCO / WHITE
W1 - MARRONE / BROWN
W2 - GIALLO / YELLOW
T - TERMOSTATO / THERMO SWITCH
F - FUSIBILE / FUSE
P - ALIMENTAZIONE RELE' / RELAY CURRENT SUPPLY

CABLAGGIO 230/400 V A TRIANGOLO
230/400V TRIANGLE WIRING

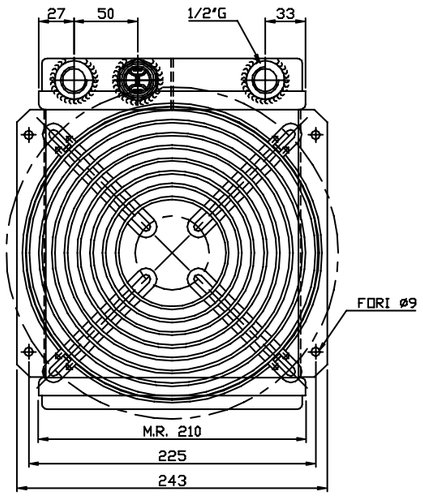


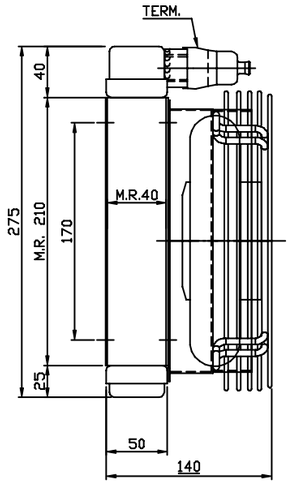
U1 - NERO / BLACK
U2 - VERDE/ GREEN
V1 - AZZURRO / BLUE
V2 - BIANCO / WHITE
W1 - MARRONE / BROWN
W2 - GIALLO / YELLOW
T - TERMOSTATO / THERMO SWITCH
F - FUSIBILE / FUSE
P - ALIMENTAZIONE RELE' / RELAY CURRENT SUPPLY



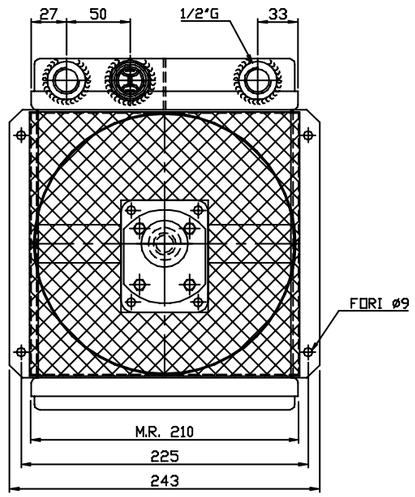


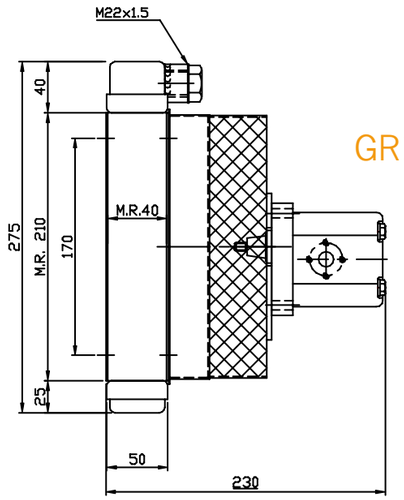
Vcc





Vac





GR1

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	6,2	630	68	190
24	3,1	630	68	190
230 Hz 50/60	0,30 / 0,34	890 / 990	44	200
230/400 Hz 50/60	0,29-0,17 / 0,23-0,13	890 / 990	44	200
Predisposizione GR1 - Prepared for GR1		☎	/	190

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

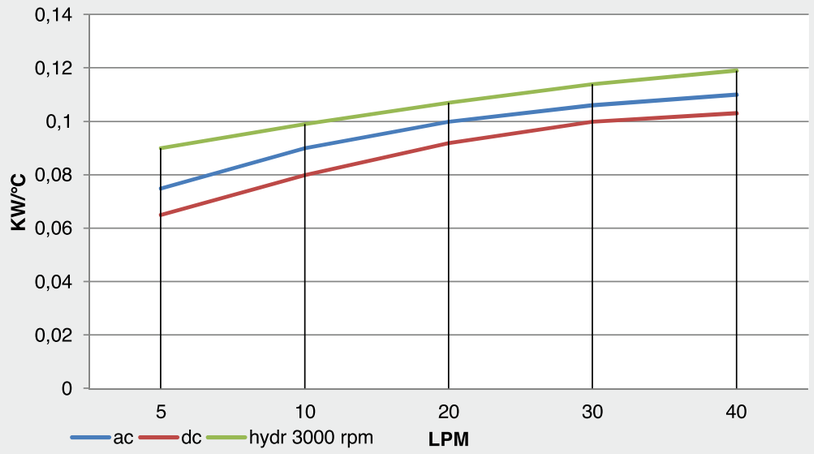
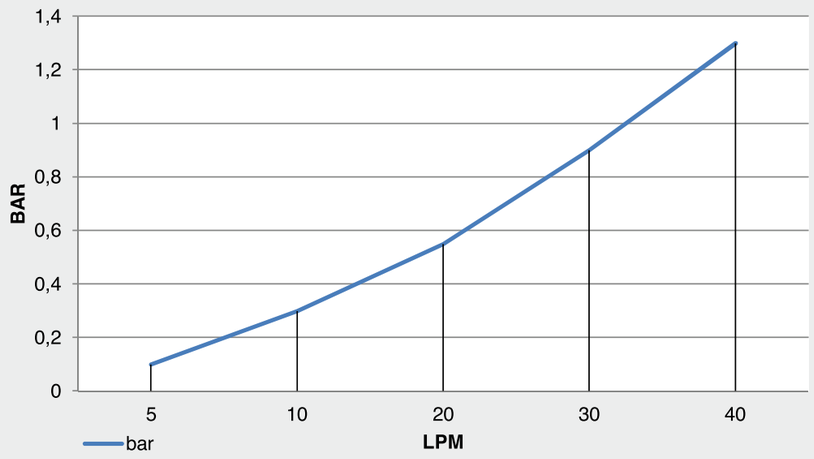
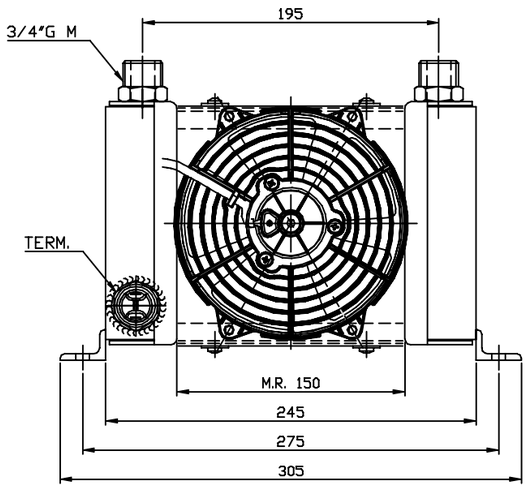
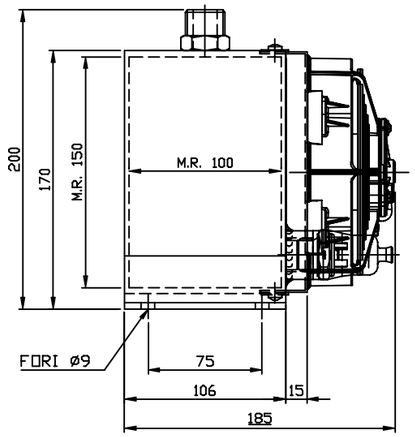


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM



Portata olio - Oil flow: 5-40 lt/1'





DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	ø
V	A	m^3/h	IP	mm
12	2,65	360	66	130
24	2,65	360	66	130

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

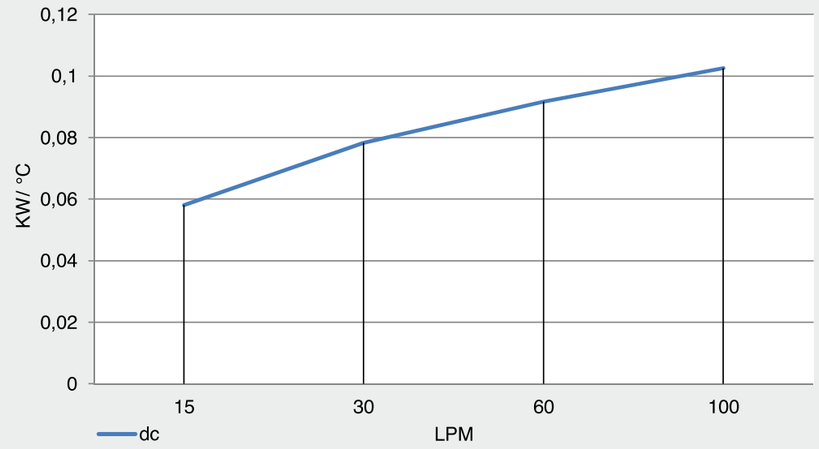
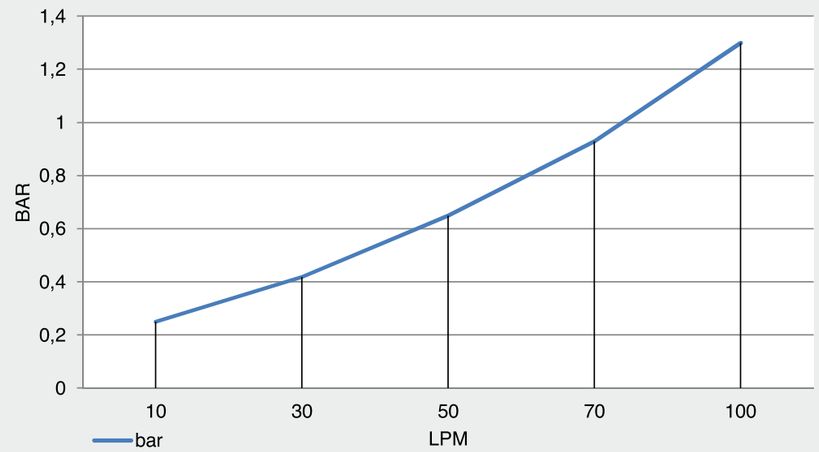
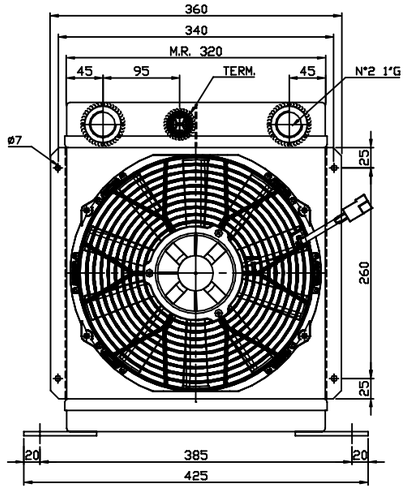
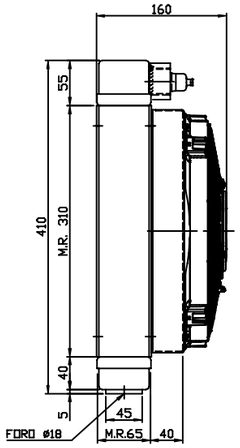


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

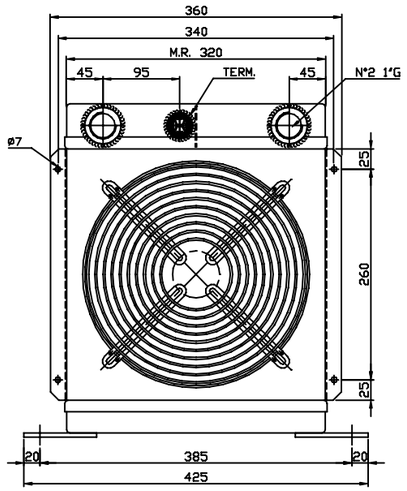


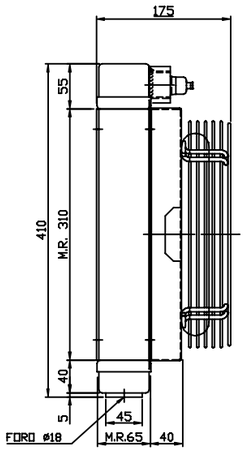
Portata olio - Oil flow: 10-100 lt/1'



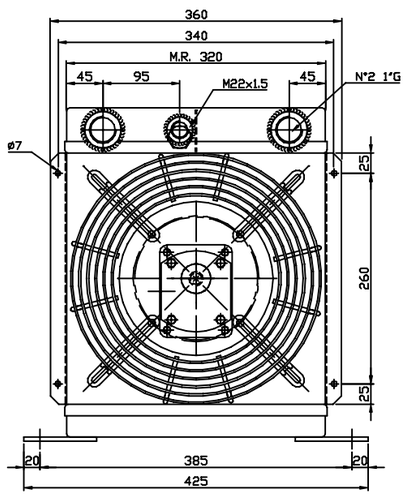


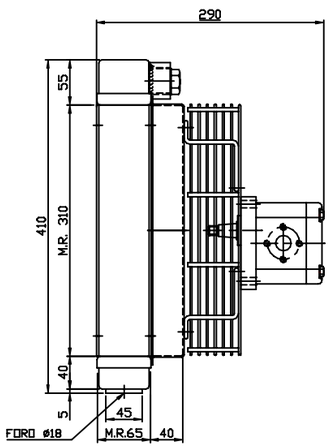
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	8	1260	68	280
24	4	1240	68	280
230 Hz 50/60	0,51 / 0,66	1820 / 1970	44	250
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23	1830 / 1950	44	250
Predisposizione GR2 - Prepared for GR2		☎	/	280

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

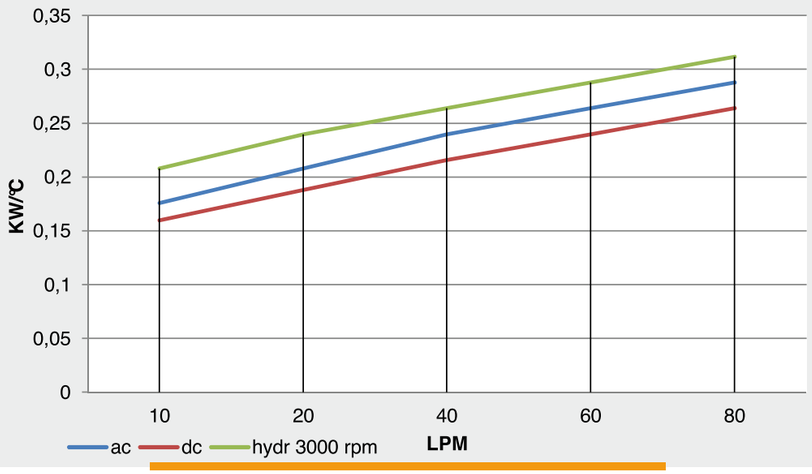
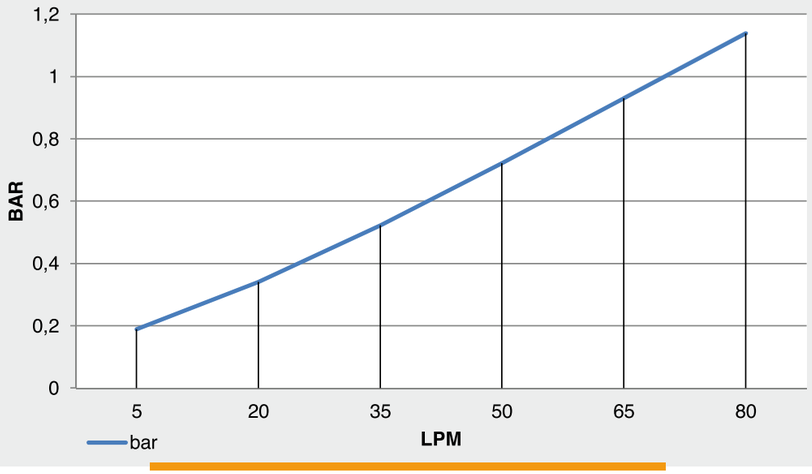
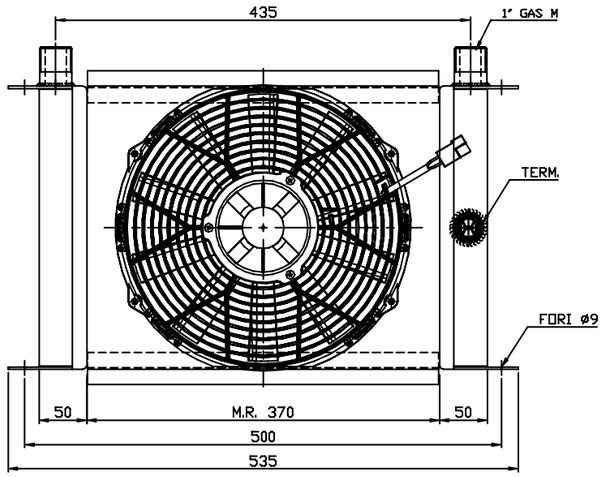
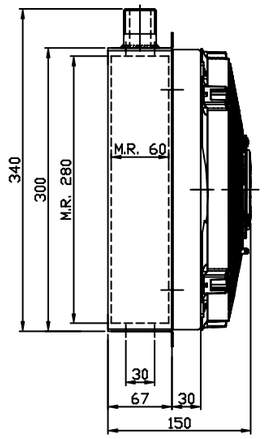


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

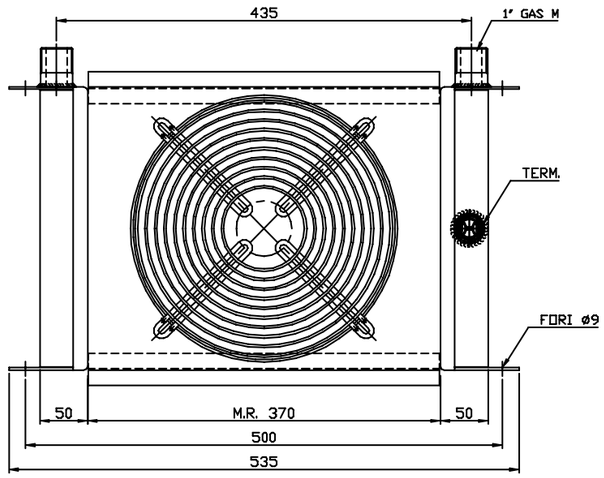


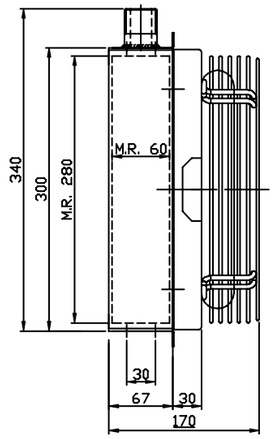
Portata olio - Oil flow: 5-80 lt/1'



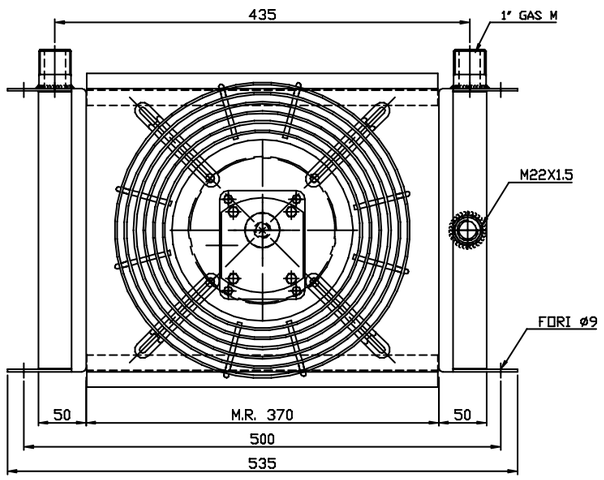


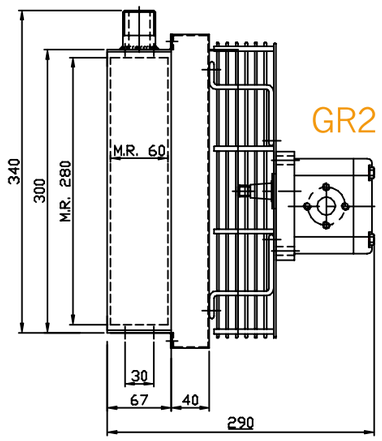
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	8	1260	68	280
24	4	1240	68	280
230 Hz 50/60	0,51 / 0,66	1820 / 1970	44	250
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23	1830 / 1950	44	250
Predisposizione GR2 - Prepared for GR2		☎	/	280

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

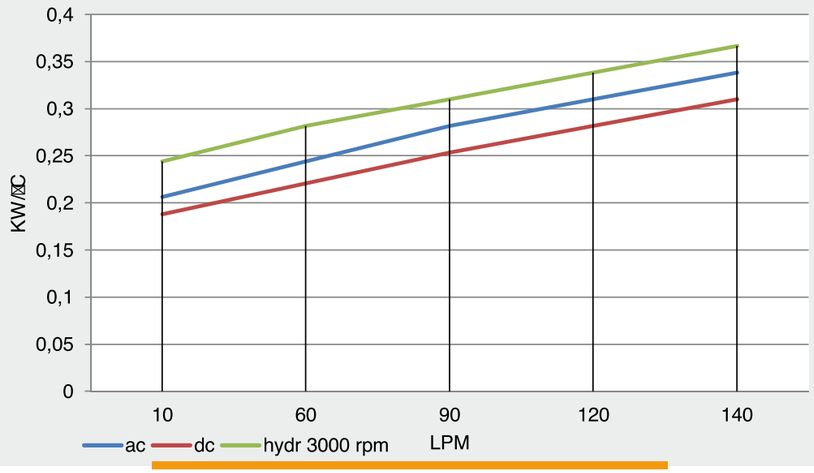
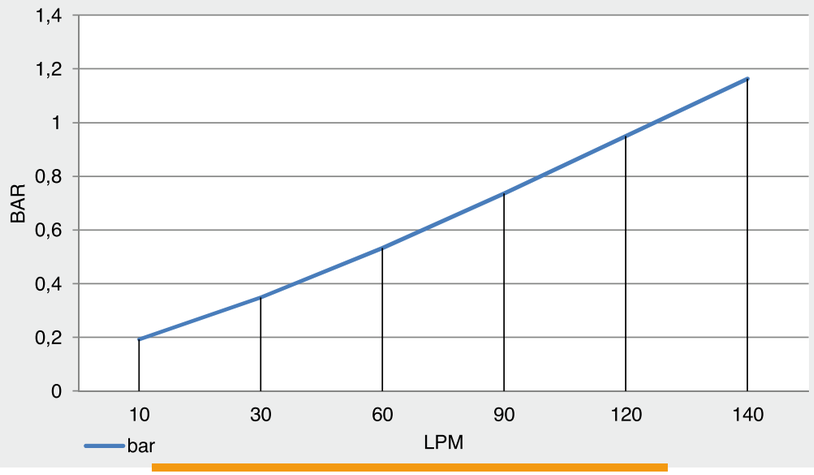
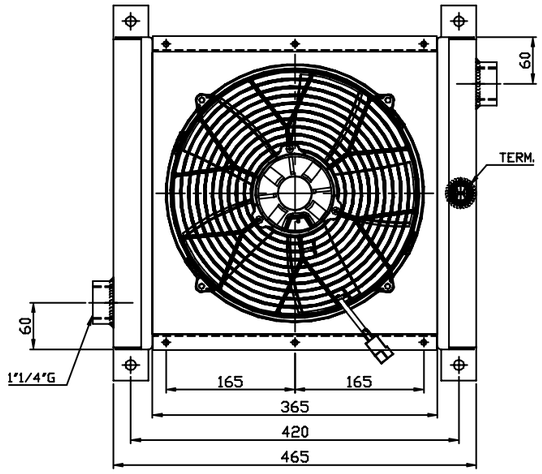
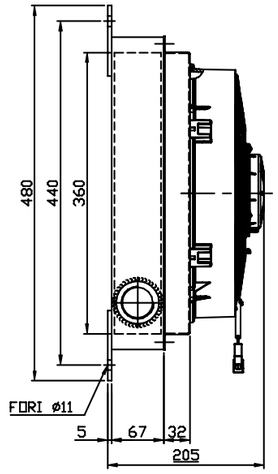


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

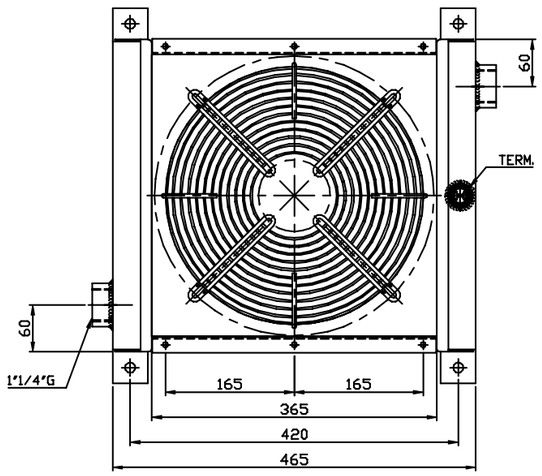


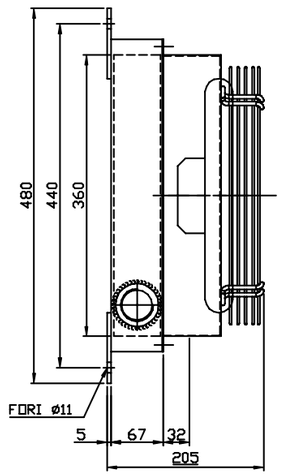
Portata olio - Oil flow: 10-140 lt/1'



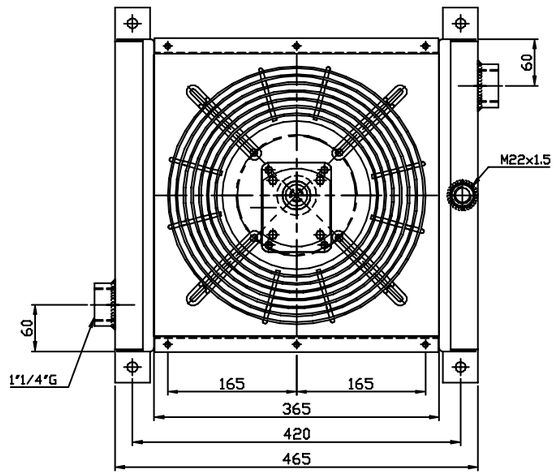


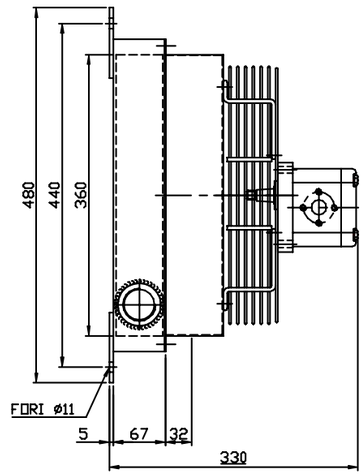
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	11,4	1800	68	2305
24	5,5	1780	68	305
230 Hz 50/60	1,1 / 1,55	3410 / 3740	44	300
230/400 Hz 50/60	0,62-0,36 / 0,83-0,48	3130 / 3350	44	300
Predisposizione GR2 - Prepared for GR2		☎	/	300

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

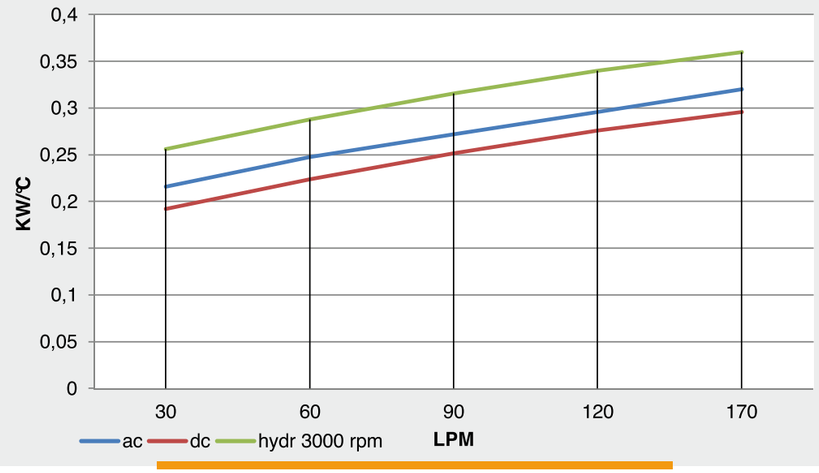
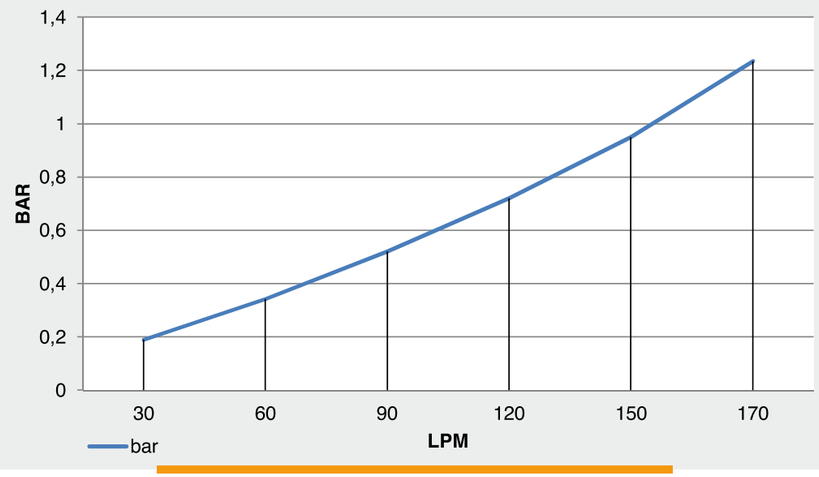
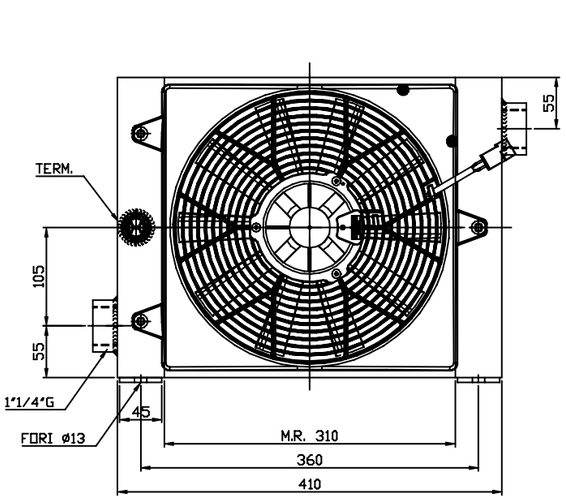
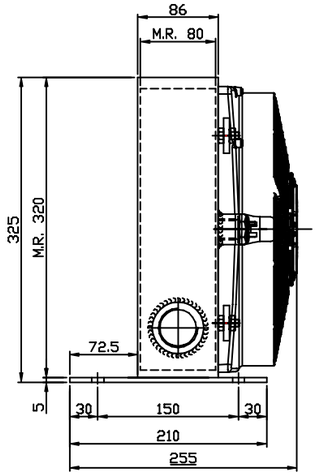


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

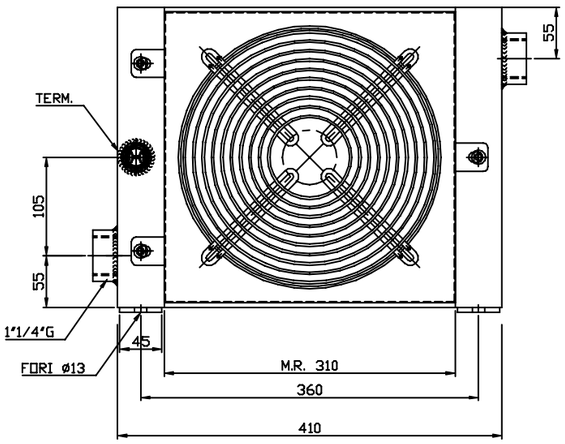


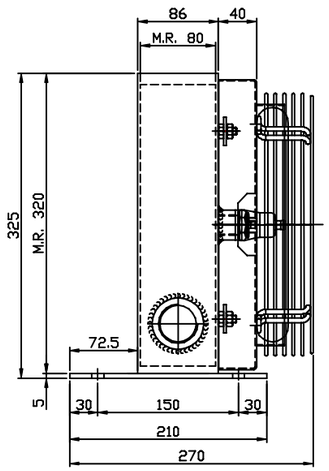
Portata olio - Oil flow: 25-170 lt/1'



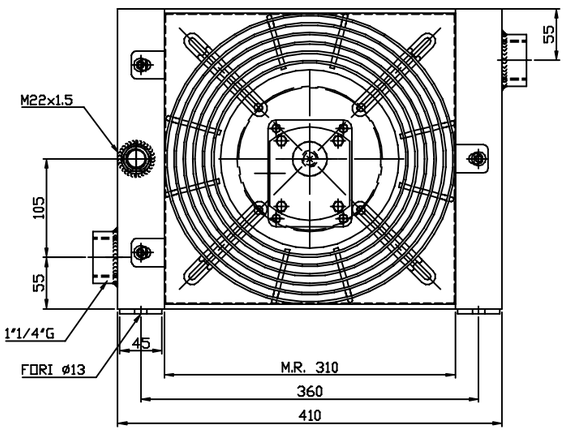


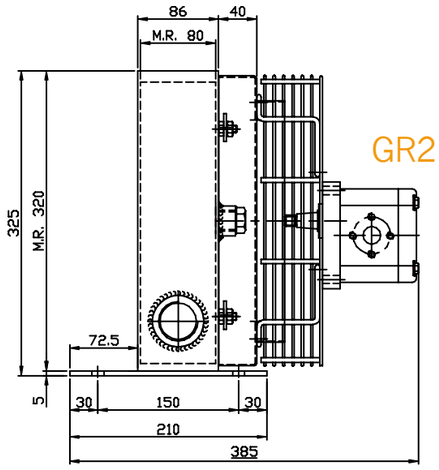
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	7,3	1450	68	280
24	3,7	1470	68	280
230 Hz 50/60	0,51 / 0,66	1820 / 1970	44	250
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23	1830 / 1950	44	250
Predisposizione GR2 - Prepared for GR2		☎	/	280

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

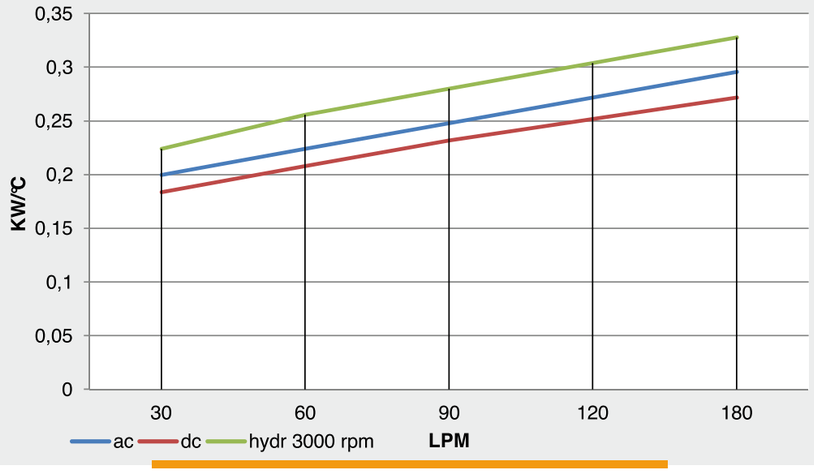
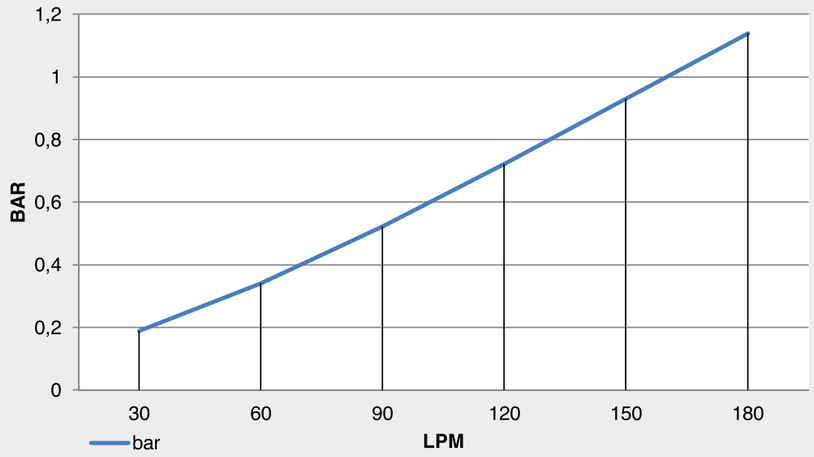
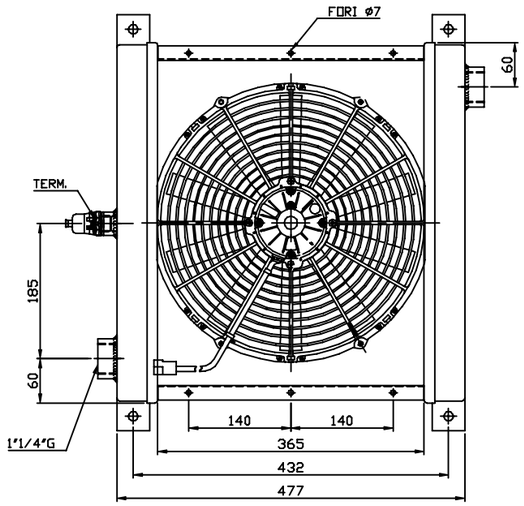
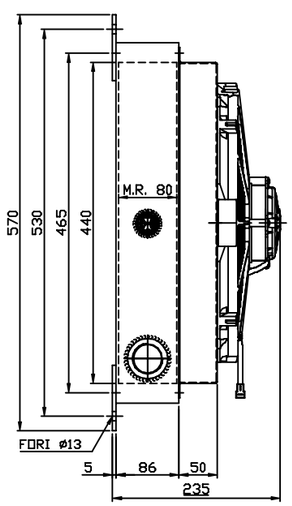


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

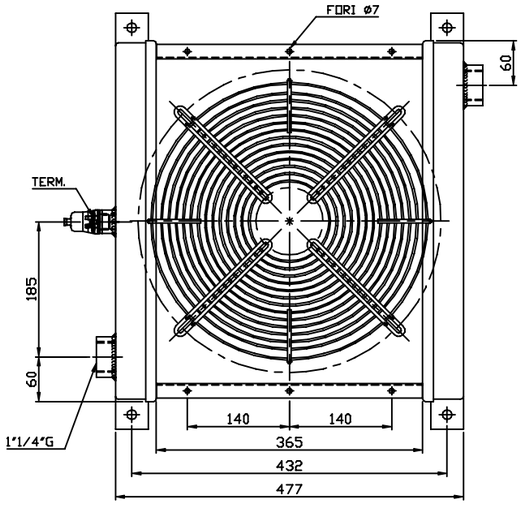


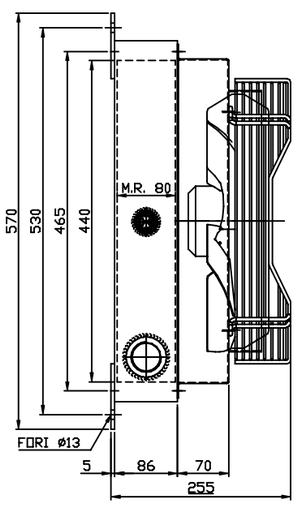
Portata olio - Oil flow: 30-180 lt/1'



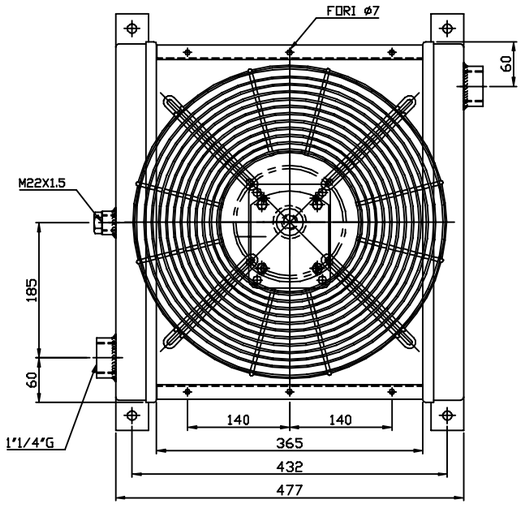


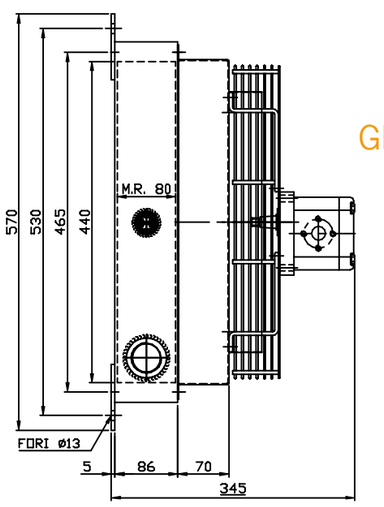
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	ø
V	A	m^3/h	IP	mm
12	18,7	2840	68	350
24	10,1	2810	68	350
230 Hz 50/60	0,58 / 0,80	3250 / 3640	44	350
230/400 Hz 50/60	0,73-0,42 / 0,64-0,37	3340 / 3815	44	350
Predisposizione GR2 - Prepared for GR2		☎	/	300

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

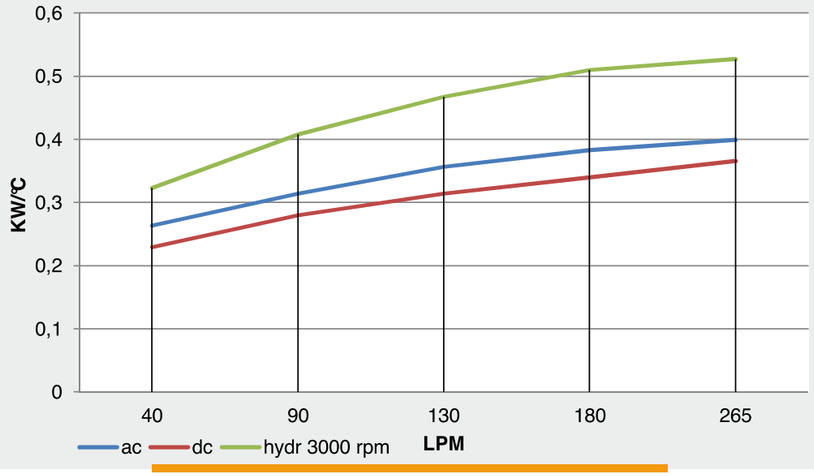
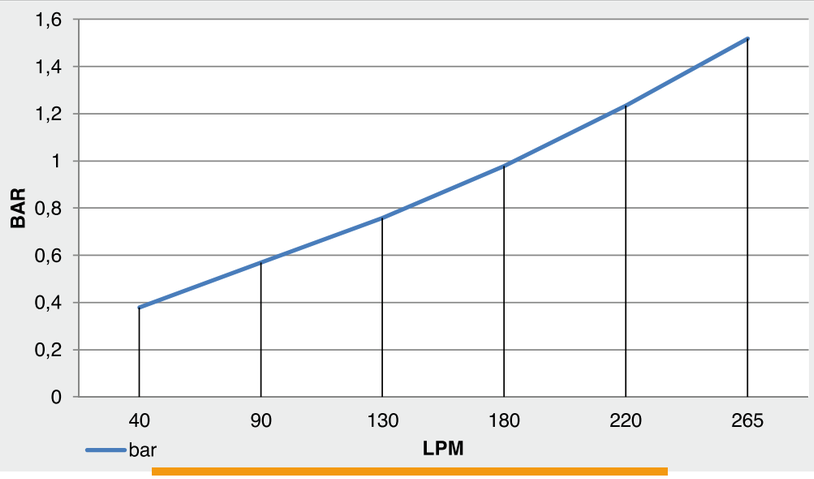
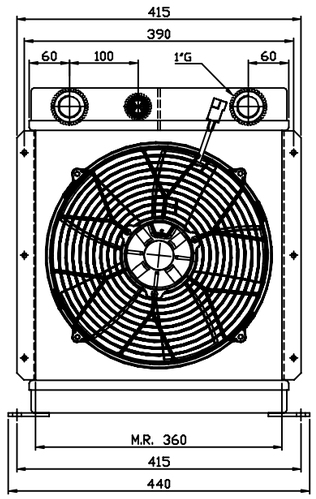
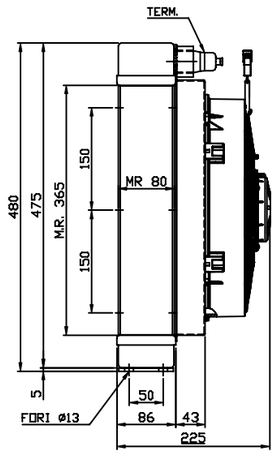


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

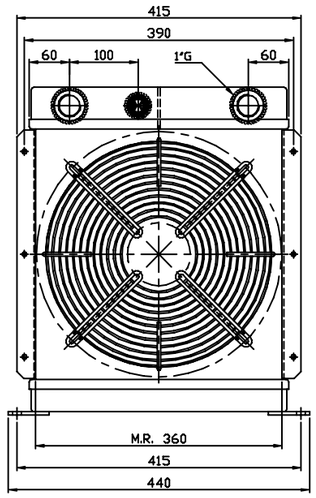


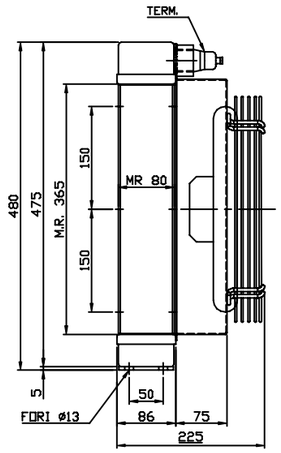
Portata olio - Oil flow: 40-265 lt/1'



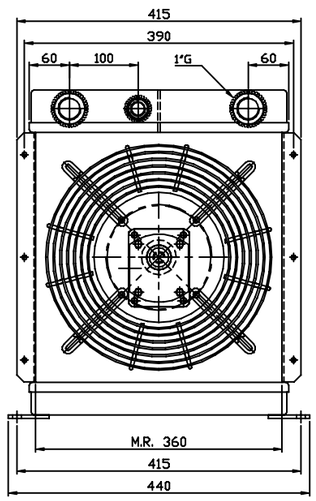


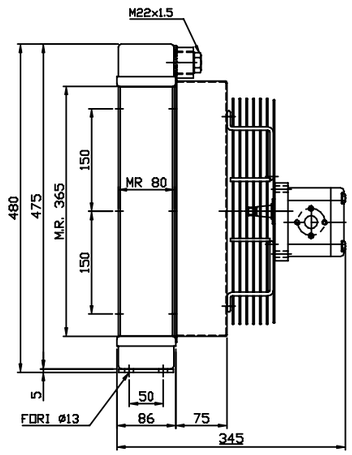
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	20,7	2490	68	305
24	10	2520	68	305
230 Hz 50/60	1,1 / 1,55	3410 / 3740	44	300
230/400 Hz 50/60	0,62-0,36 / 0,83-0,48	3130 / 3350	44	300
Predisposizione GR2 - Prepared for GR2		☎	/	300

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

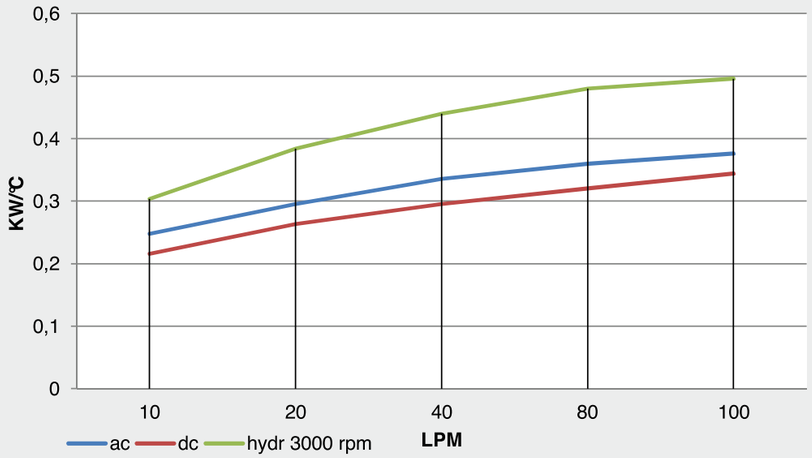
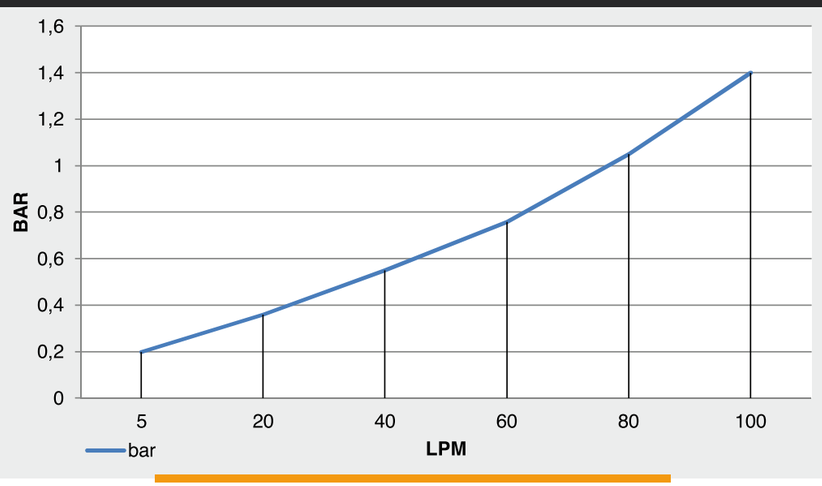
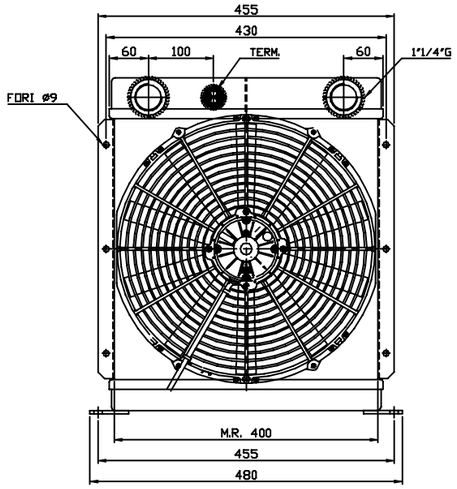
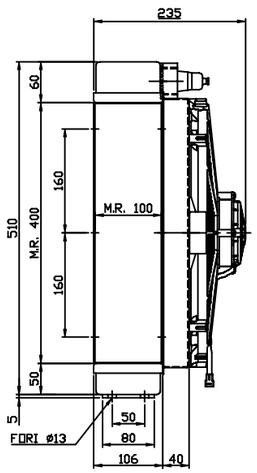


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

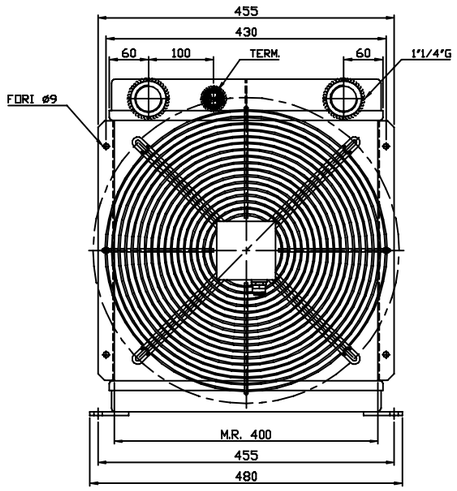


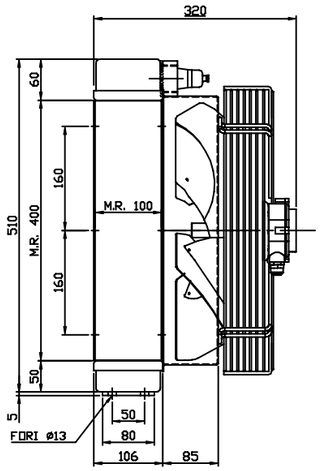
Portata olio - Oil flow: 10-100 lt/1'



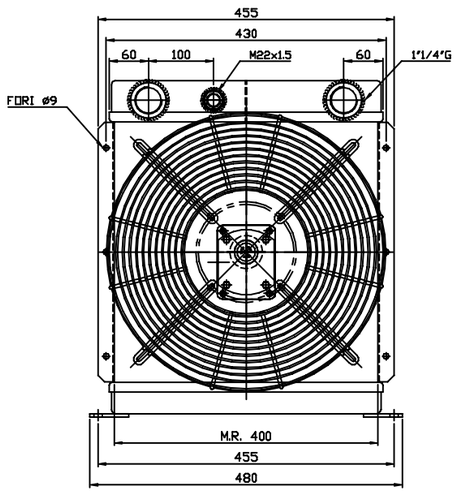


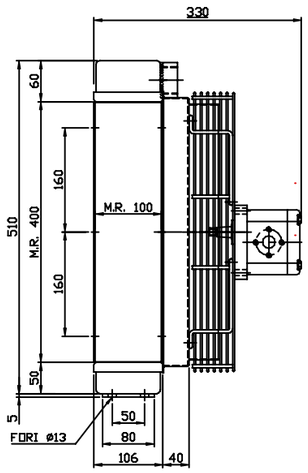
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	18,1	3220	68	385
24	8	3080	68	385
230 Hz 50/60	0,73 / 1,06	4235 / 4950	44	400
230/400 Hz 50/60	0,76-0,44 / 0,68-0,39	4000 / 4610	44	400
Predisposizione GR2 - Prepared for GR2		☎	/	380

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

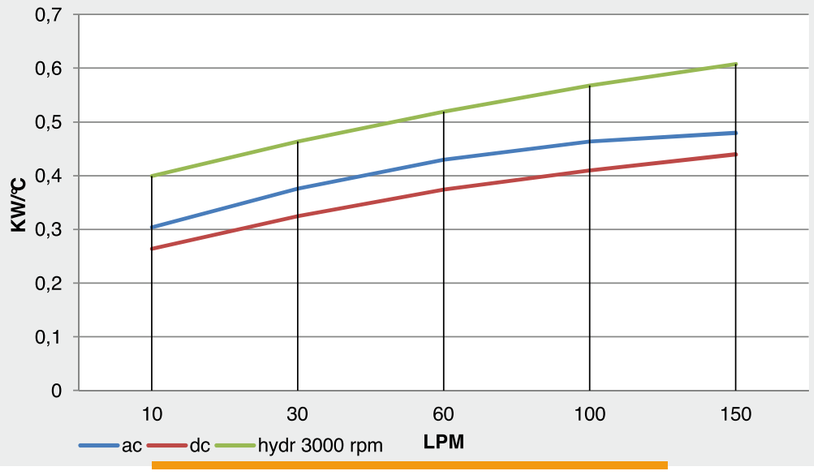
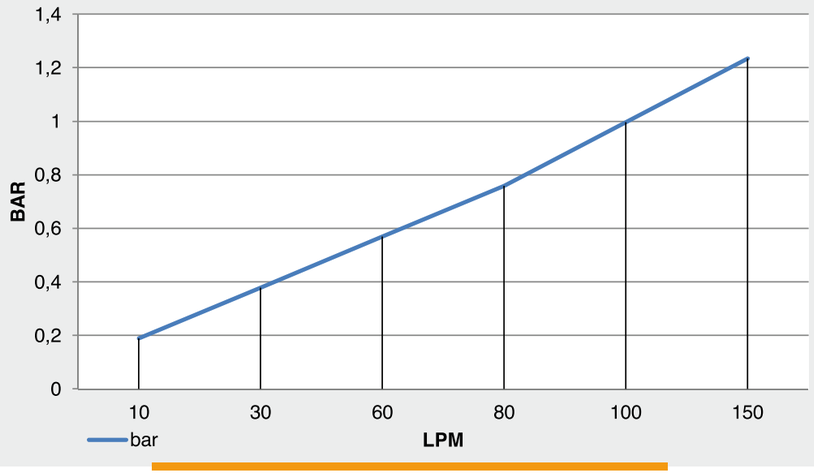
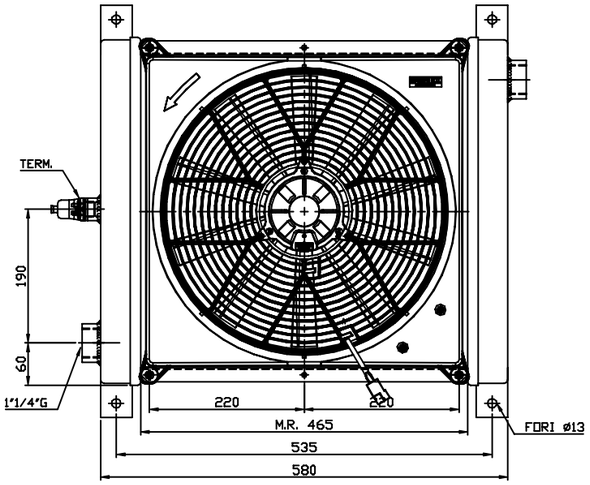
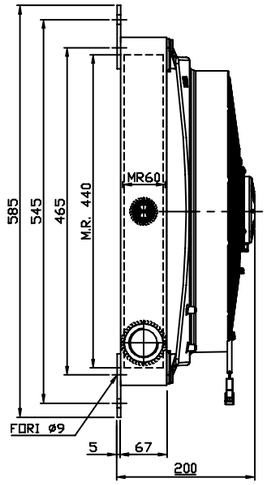


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

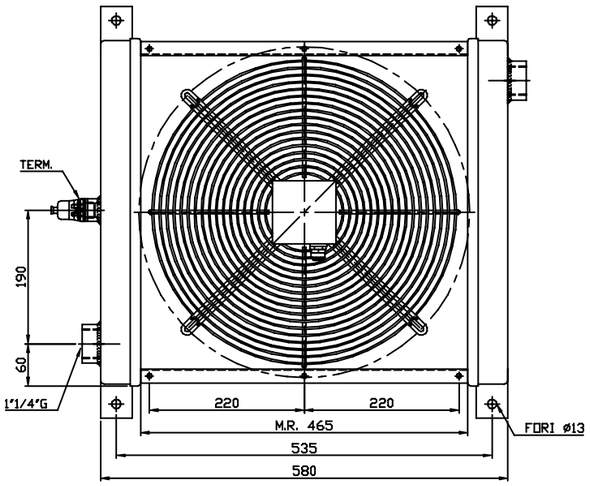


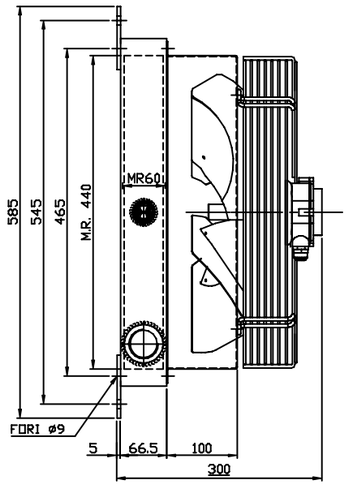
Portata olio - Oil flow: 10-150 lt/1'



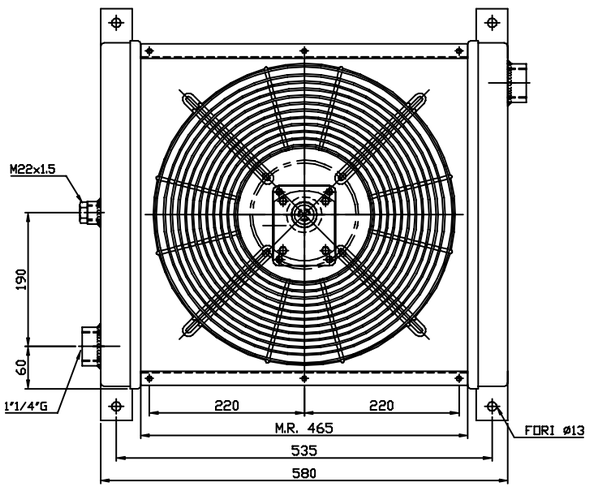


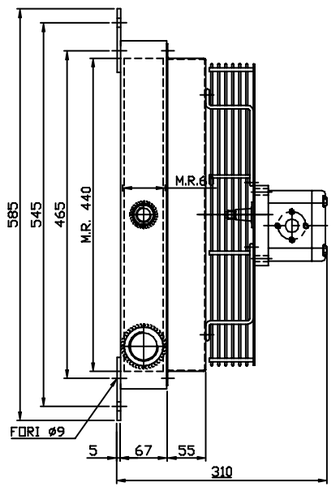
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	18,1	3220	68	385
24	8	3080	68	385
230 Hz 50/60	0,73 / 1,06	4235 / 4950	44	400
230/400 Hz 50/60	0,76-0,44 / 0,68-0,39	4000 / 4610	44	400
Predisposizione GR2 - Prepared for GR2		☎	/	400

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

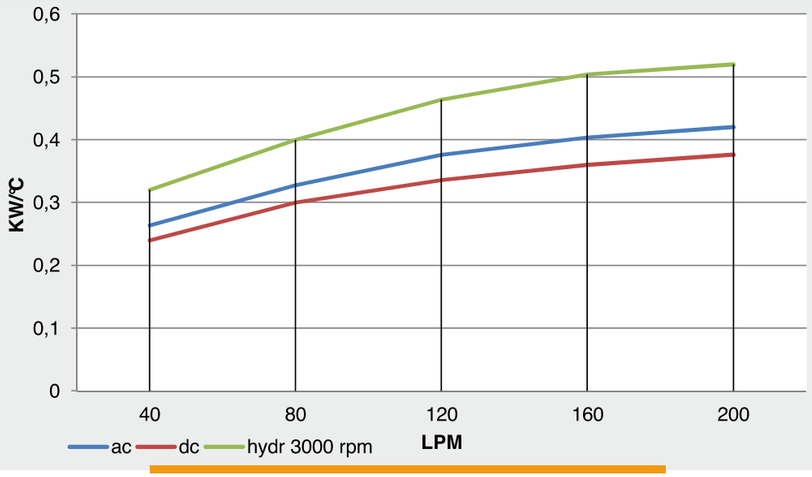
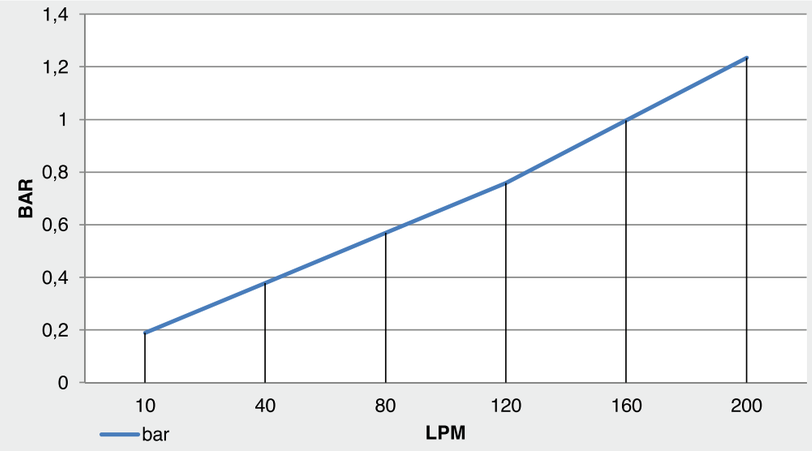
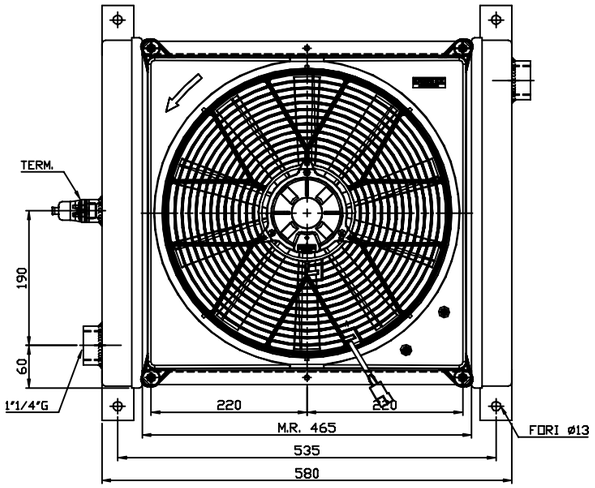
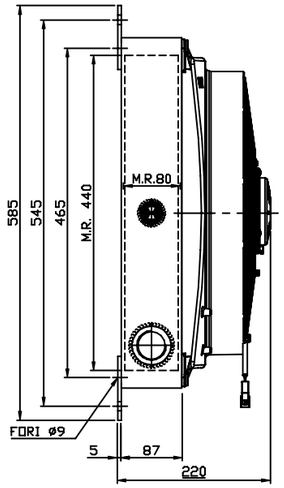


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

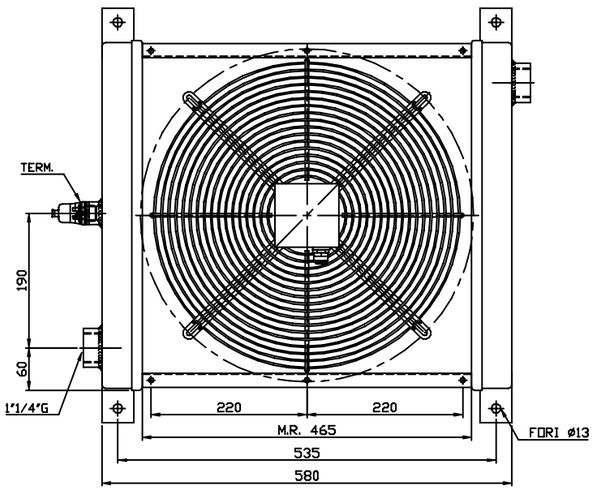


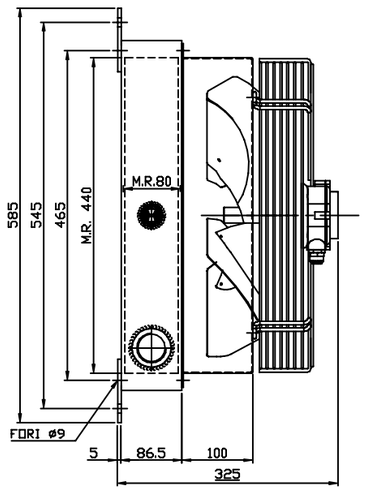
Portata olio - Oil flow: 40-200 lt/1'



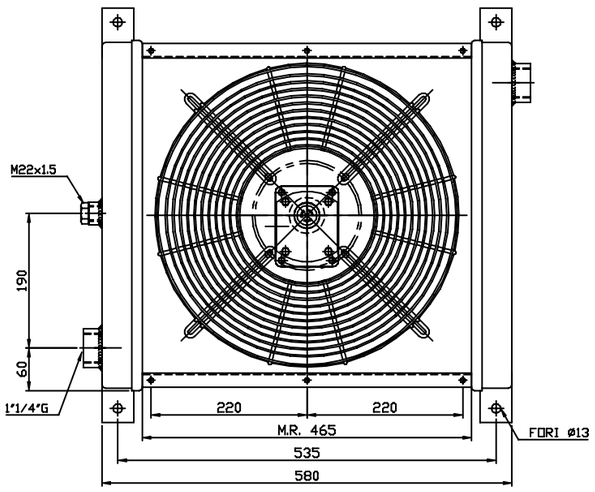


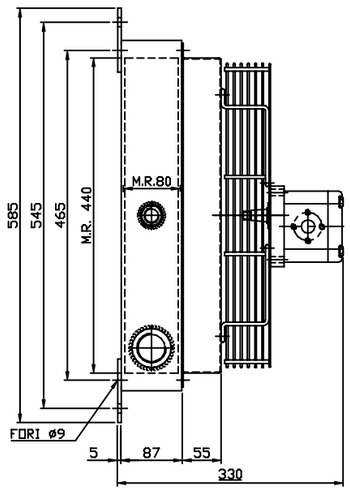
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	18,1	3220	68	385
24	8	3080	68	385
230 Hz 50/60	0,73 / 1,06	4235 / 4950	44	400
230/400 Hz 50/60	0,76-0,44 / 0,68-0,39	4000 / 4610	44	400
Predisposizione GR2 - Prepared for GR2		☎	/	400

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

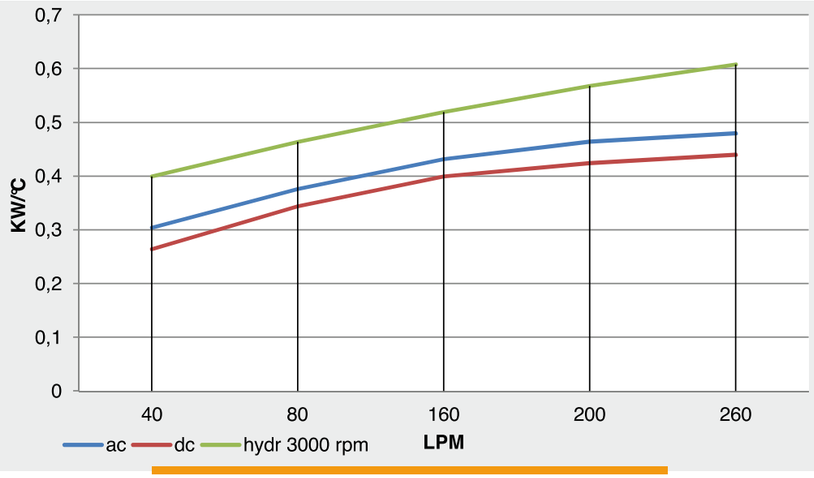
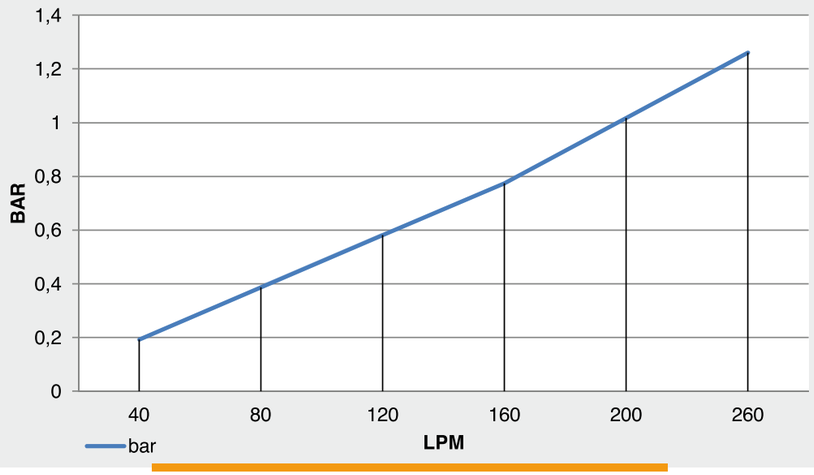
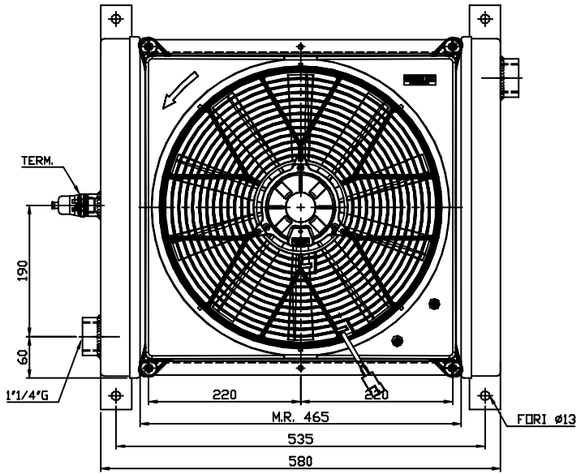
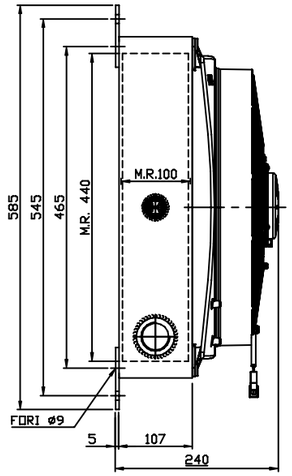


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

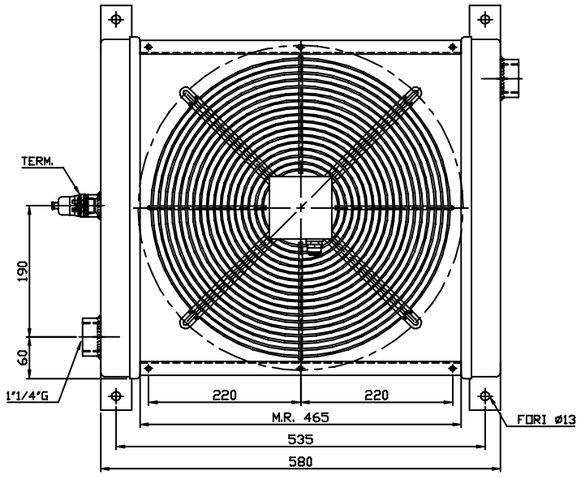


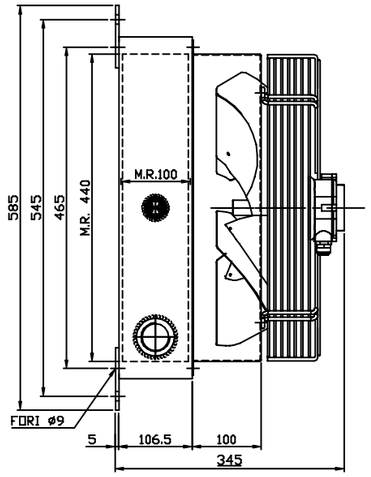
Portata olio - Oil flow: 40-260 lt/1'



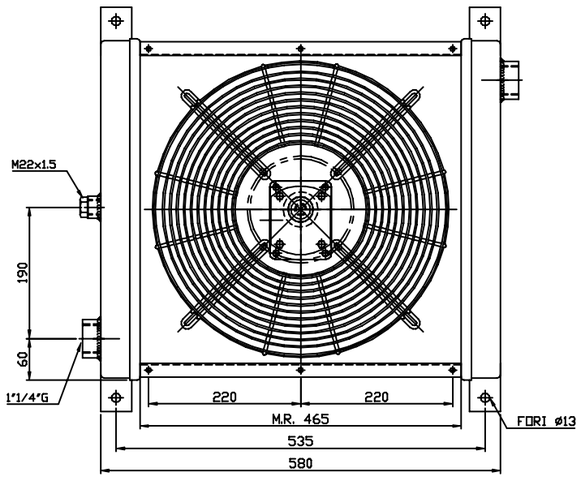


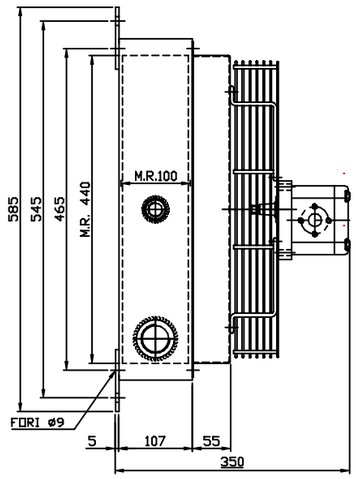
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	18,1	3220	68	385
24	8	3080	68	385
230 Hz 50/60	0,73 / 1,06	4235 / 4950	44	400
230/400 Hz 50/60	0,76-0,44 / 0,68-0,39	4000 / 4610	44	400
Predisposizione GR2 - Prepared for GR2		☎	/	400

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

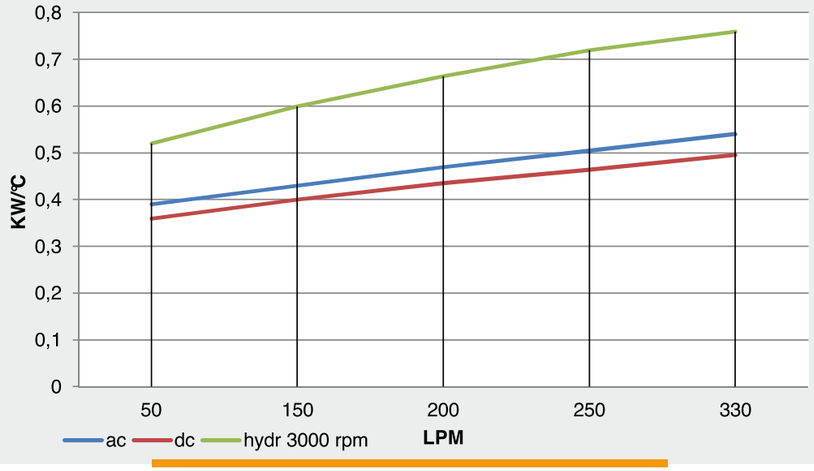
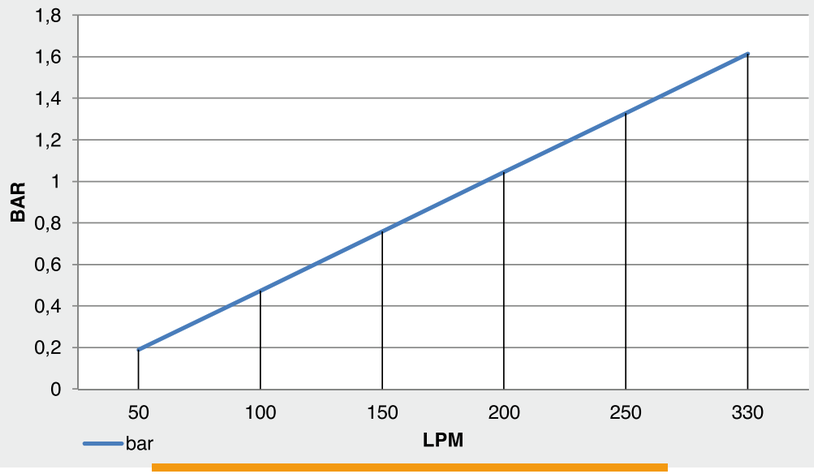
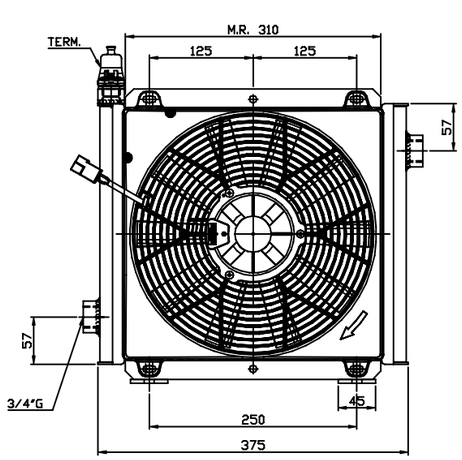
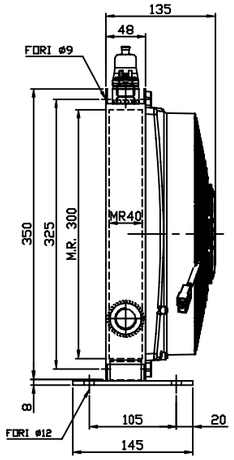


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

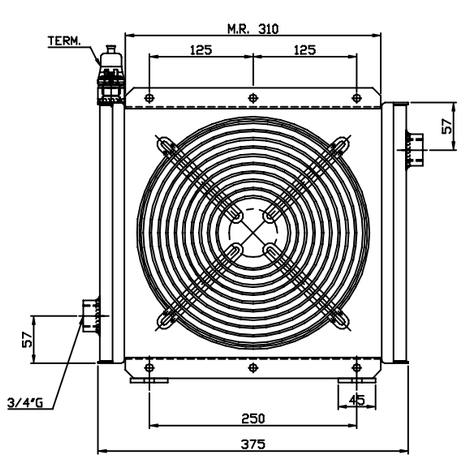


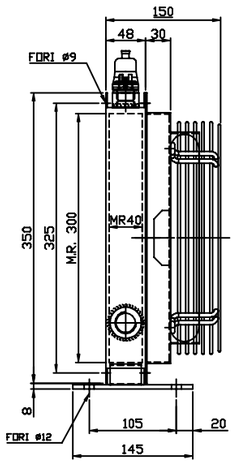
Portata olio - Oil flow: 50-330 lt/1'



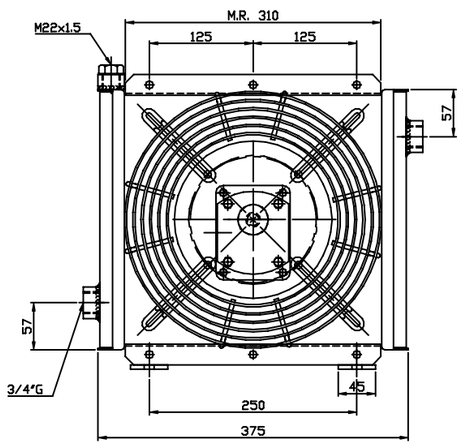


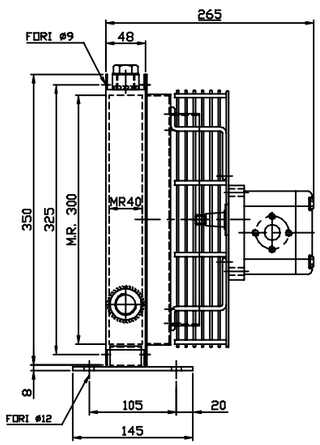
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	7,8	1290	68	280
24	3,9	1270	68	280
230 Hz 50/60	0,51 / 0,66	1820 / 1970	44	250
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23	1830 / 1950	44	250
Predisposizione GR2 - Prepared for GR2		☎	/	280

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

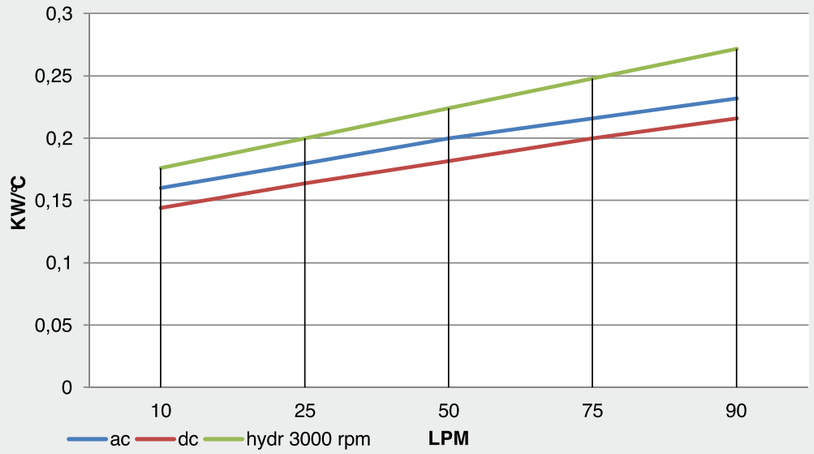
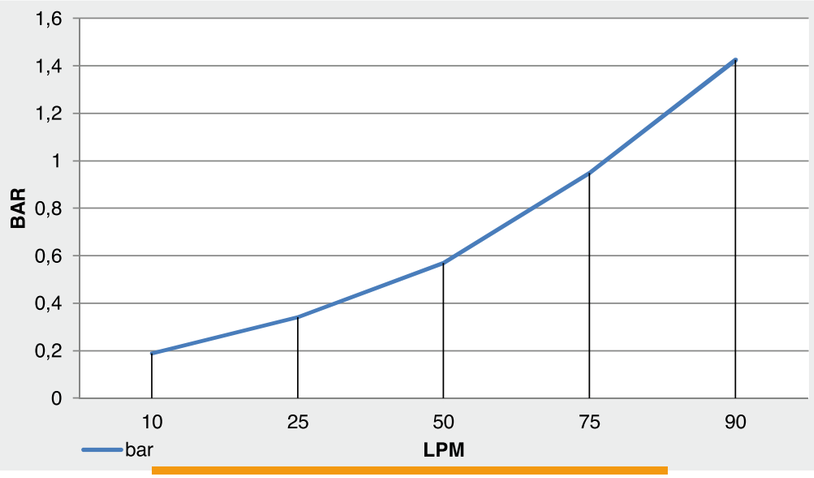
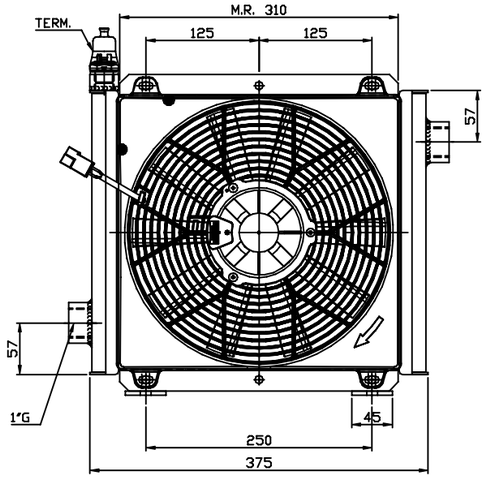
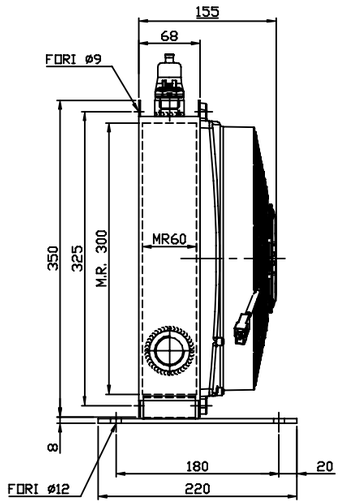


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

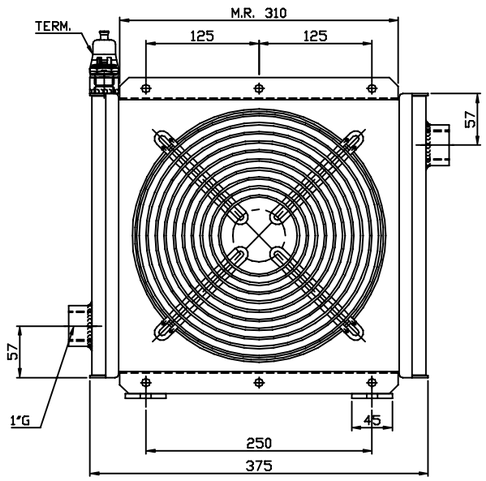


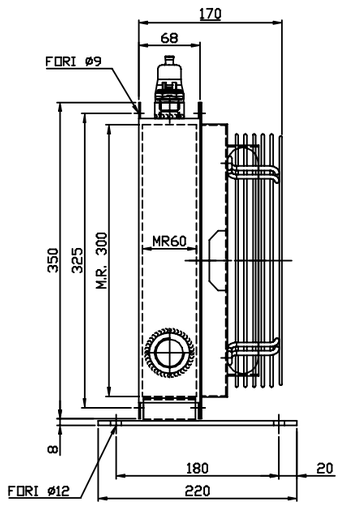
Portata olio - Oil flow: 10-90 lt/1'



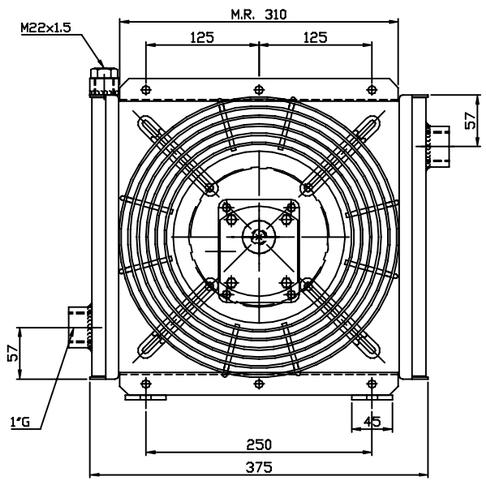


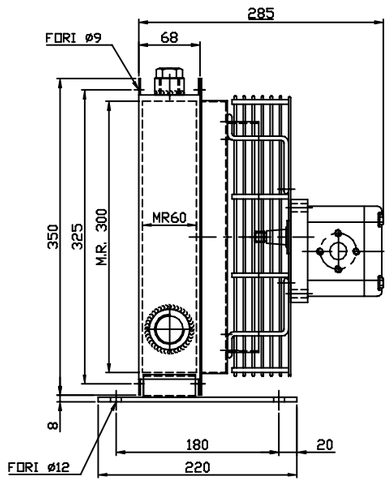
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	7,8	1290	68	280
24	3,9	1270	68	280
230 Hz 50/60	0,51 / 0,66	1820 / 1970	44	250
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23	1830 / 1950	44	250
Predisposizione GR2 - Prepared for GR2		☎	/	280

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

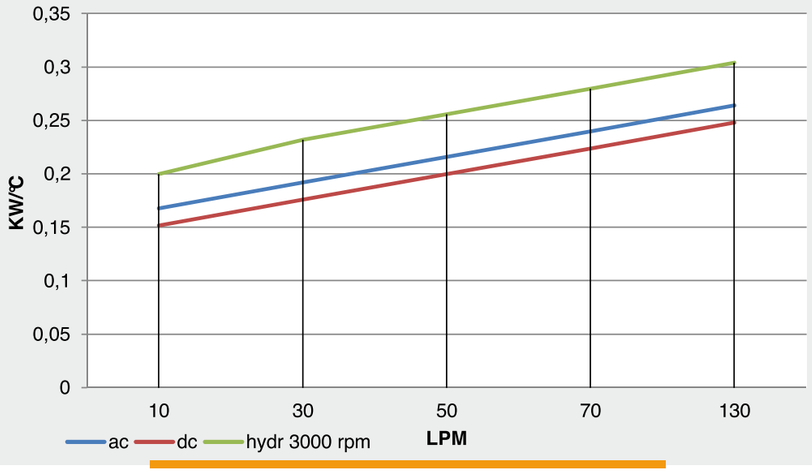
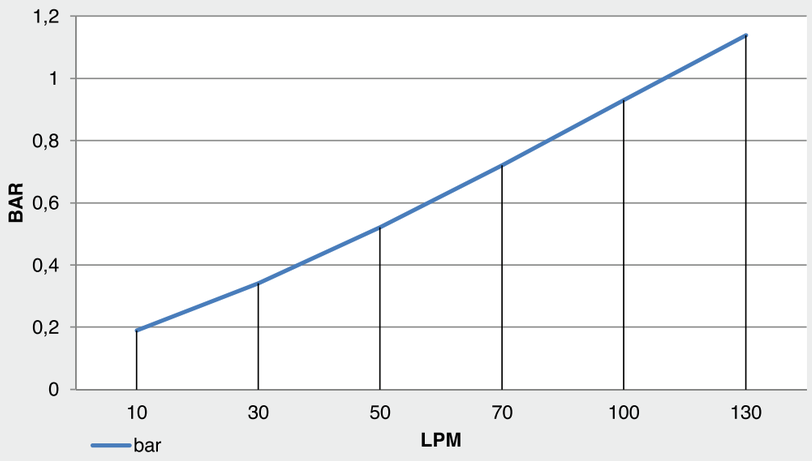
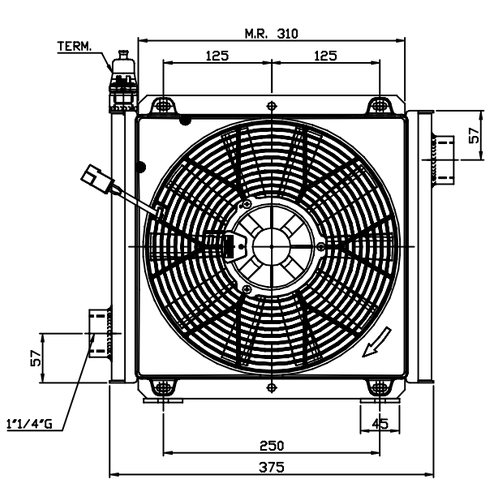
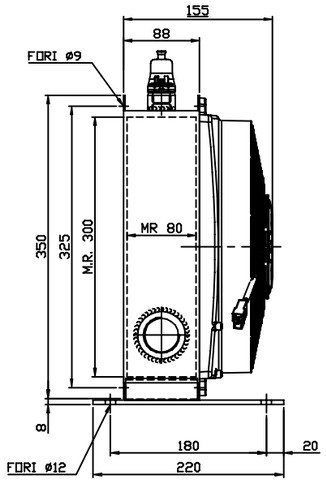


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

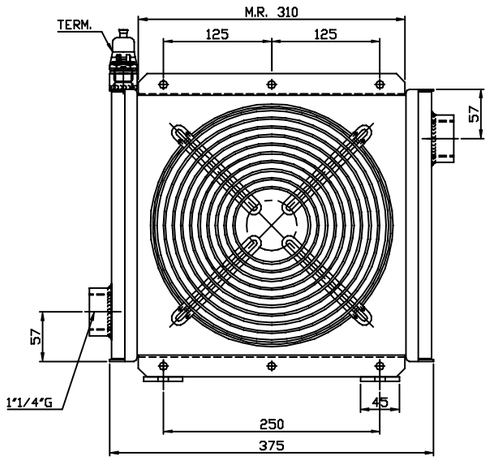


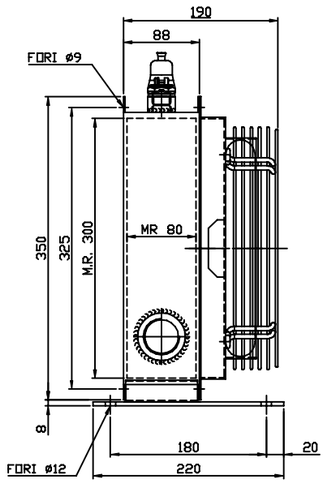
Portata olio - Oil flow: 10-130 lt/1'



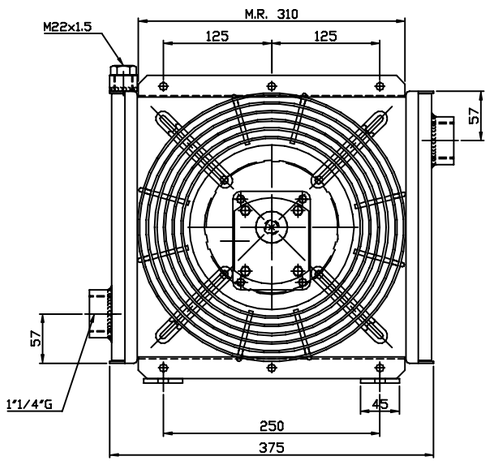


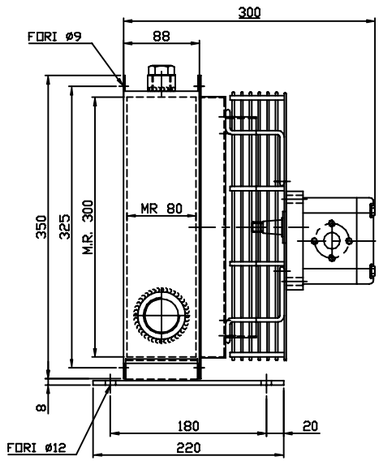
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	7,8	1290	68	280
24	3,9	1270	68	280
230 Hz 50/60	0,51 / 0,66	1820 / 1970	44	250
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23	1830 / 1950	44	250
Predisposizione GR2 - Prepared for GR2		☎	/	280

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

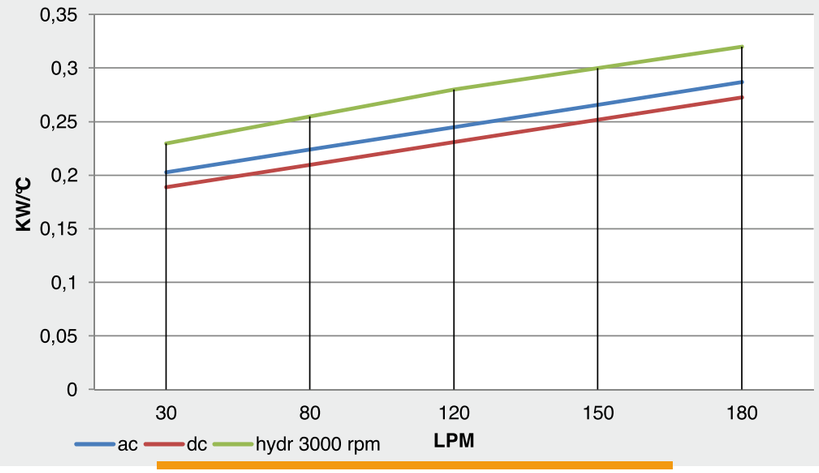
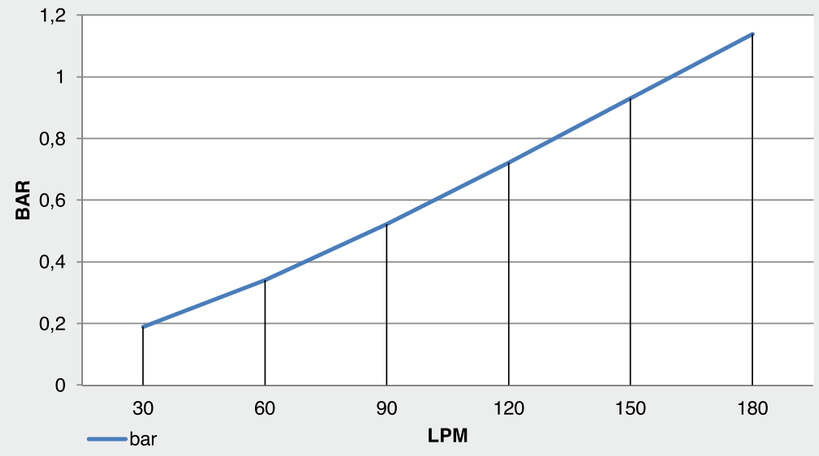
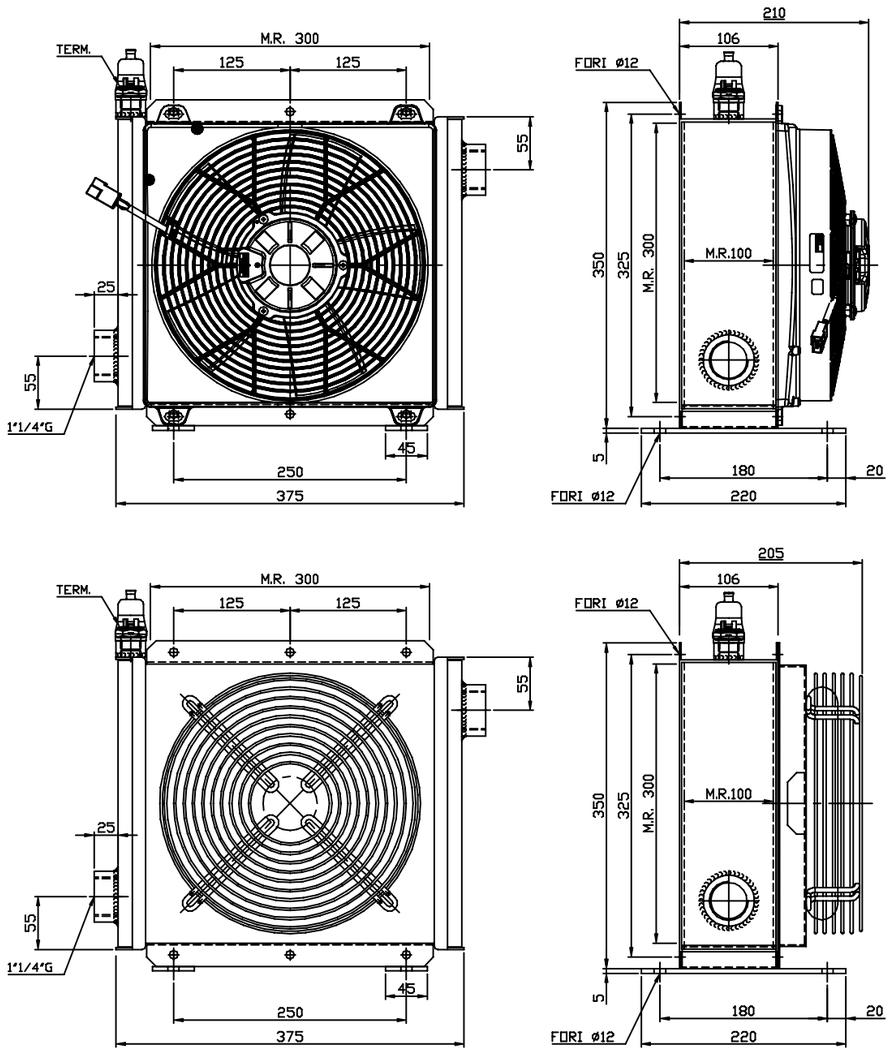


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

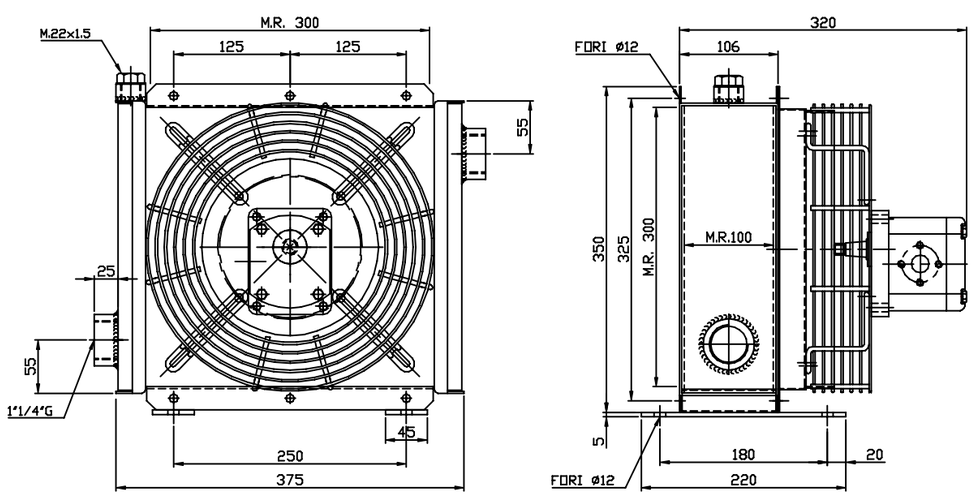


Portata olio - Oil flow: 30-180 lt/1'



Vcc

Vac



GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	7,8	1290	68	280
24	3,9	1270	68	280
230 Hz 50/60	0,51 / 0,66	1820 / 1970	44	250
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23	1830 / 1950	44	250
Predisposizione GR2 - Prepared for GR2		☎	/	280

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

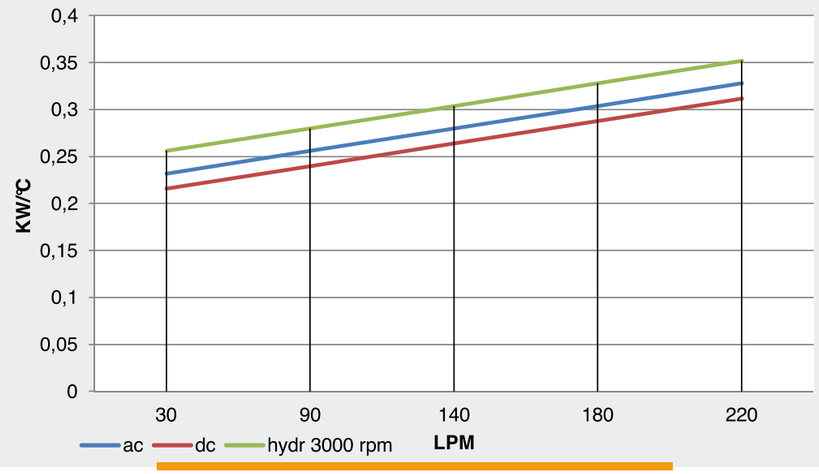
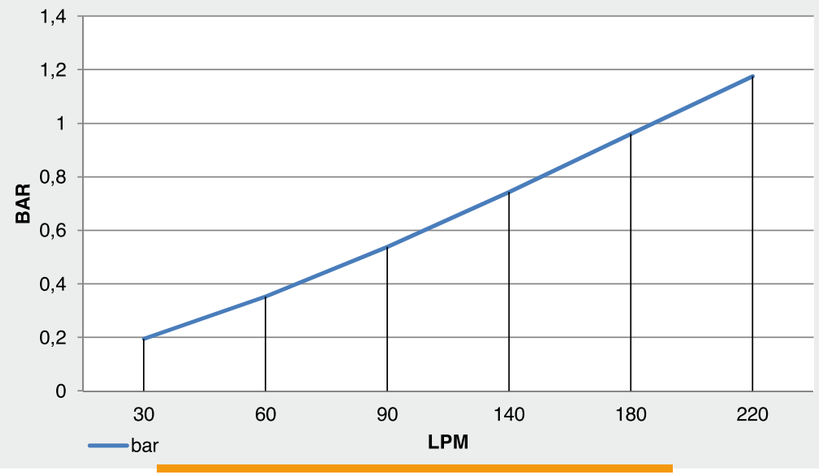
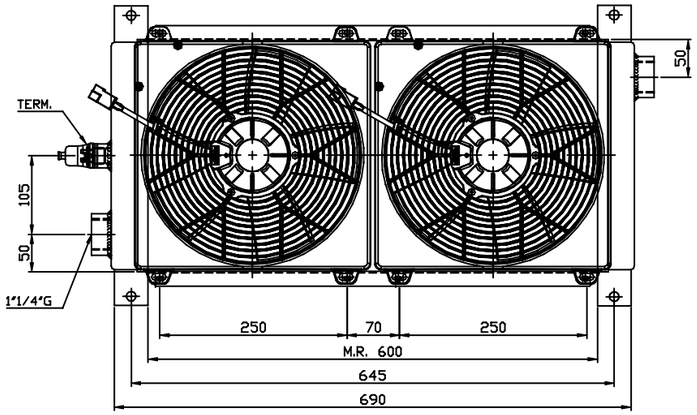
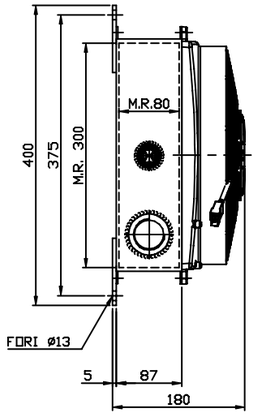


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

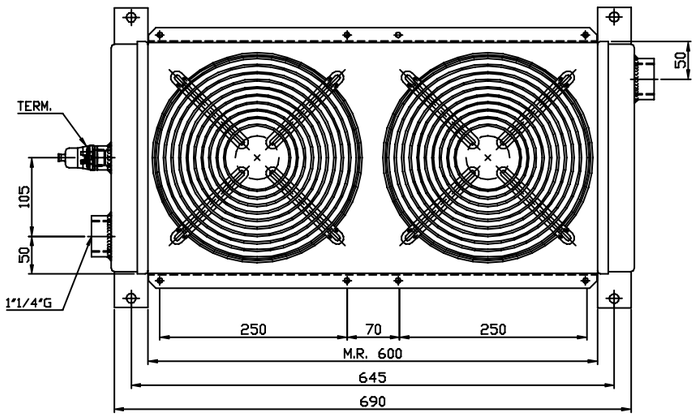


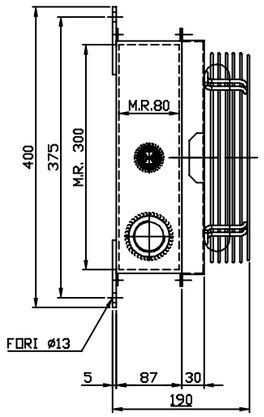
Portata olio - Oil flow: 30-220 lt/1'



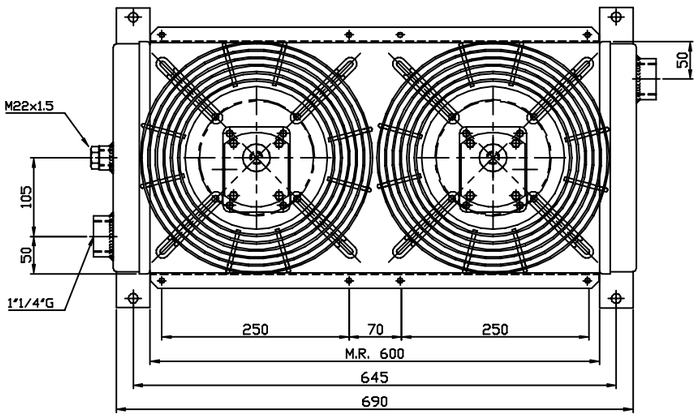


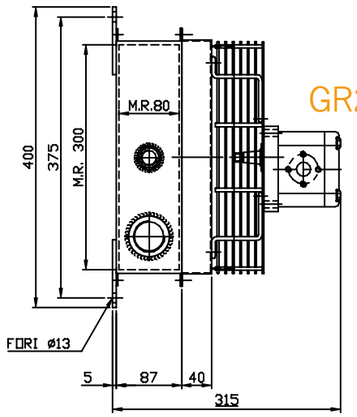
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	7,8 x 2	1290 x 2	68	280 x 2
24	3,9 x 2	1270 x 2	68	280 x 2
230 Hz 50/60	0,51 / 0,66 x 2	1820 / 1970 x 2	44	250 x 2
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23 x 2	1830 / 1950 x 2	44	250 x 2
Predisposizione GR2 - Prepared for GR2		☎	/	280 x 2

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

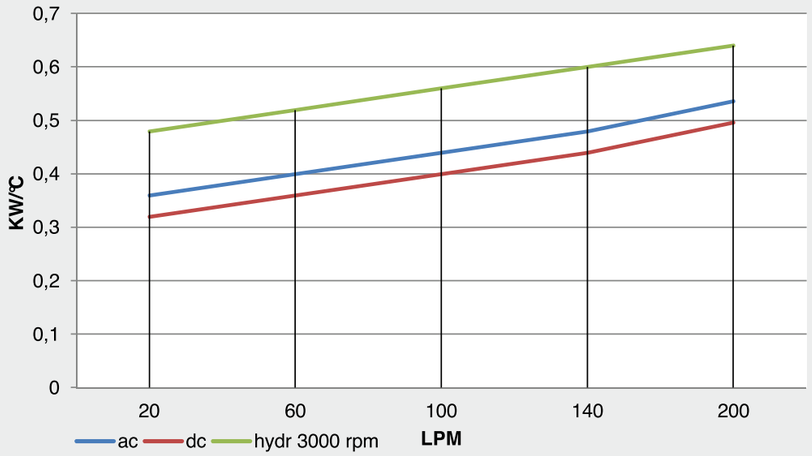
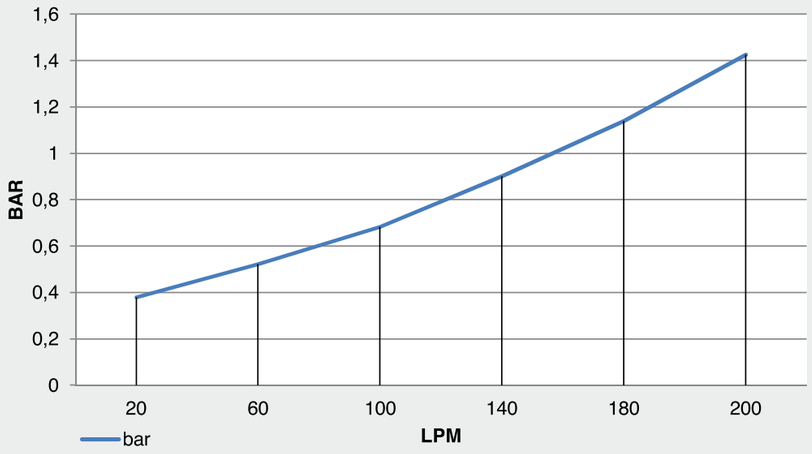
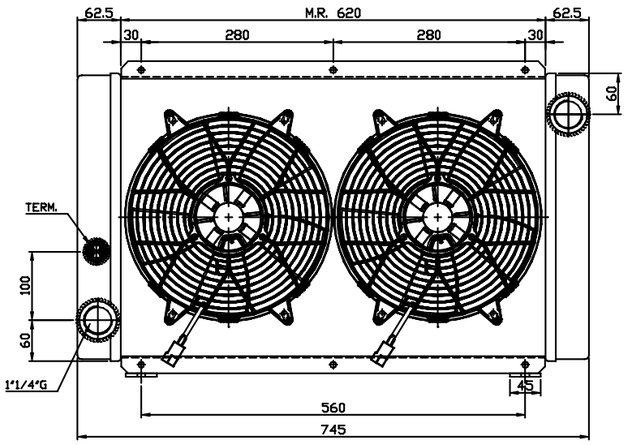
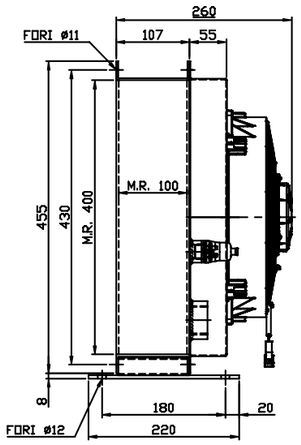


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

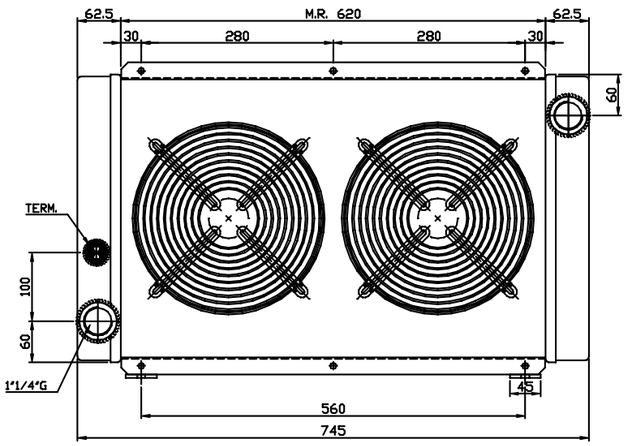


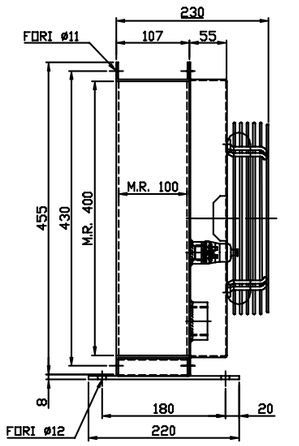
Portata olio - Oil flow: 20-200 lt/1'



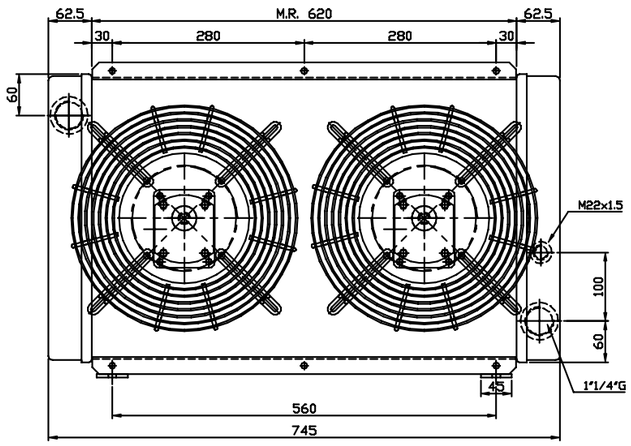


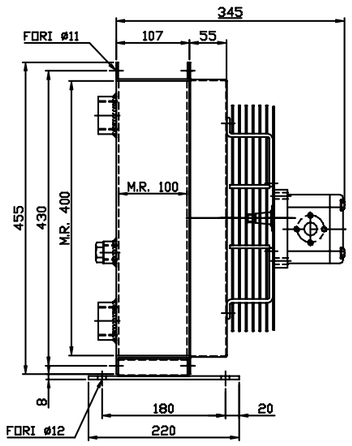
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	16,6 x 2	2010 x 2	68	280 x 2
24	8 x 2	2010 x 2	68	280 x 2
230 Hz 50/60	0,51 / 0,66 x 2	1820 / 1970 x 2	44	250 x 2
230/400 Hz 50/60	0,34-0,20 / 0,40-0,23 x 2	1830 / 1950 x 2	44	250 x 2
Predisposizione GR2 - Prepared for GR2		☎	/	300 x 2

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

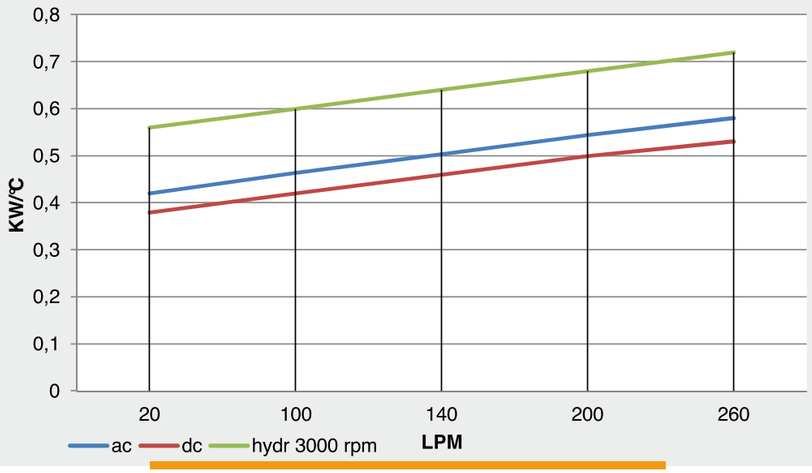
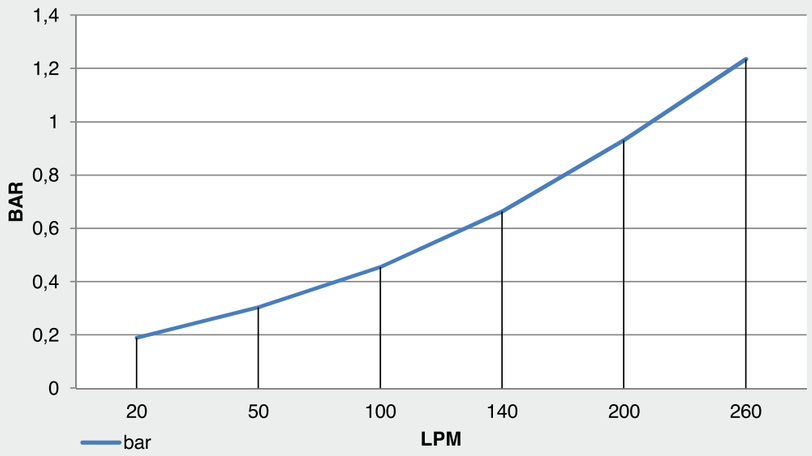
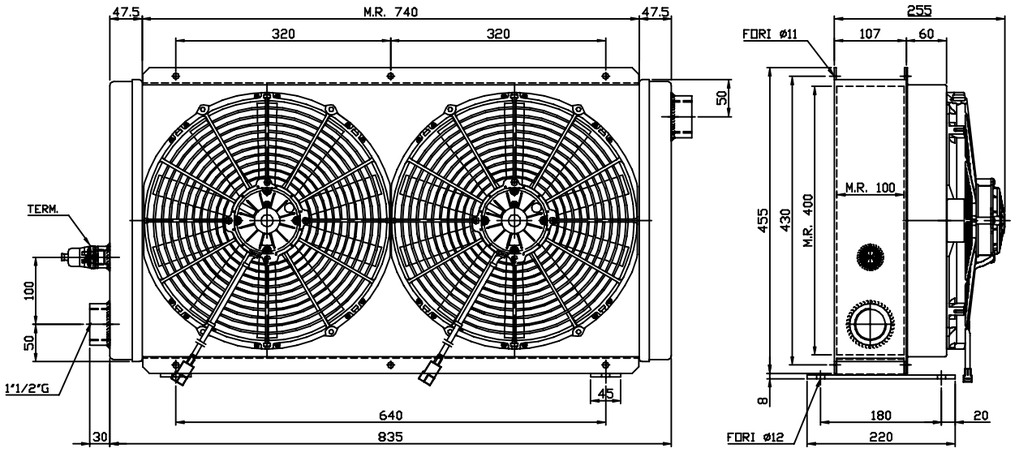


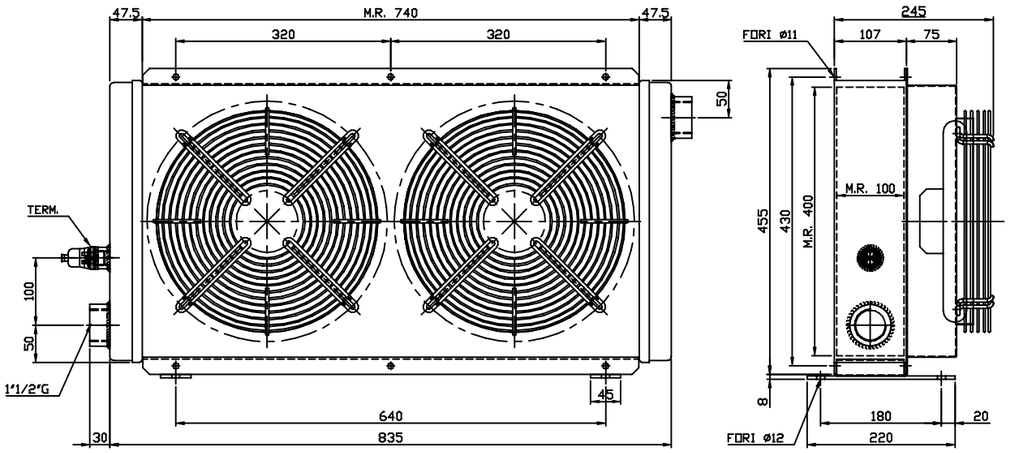
DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM



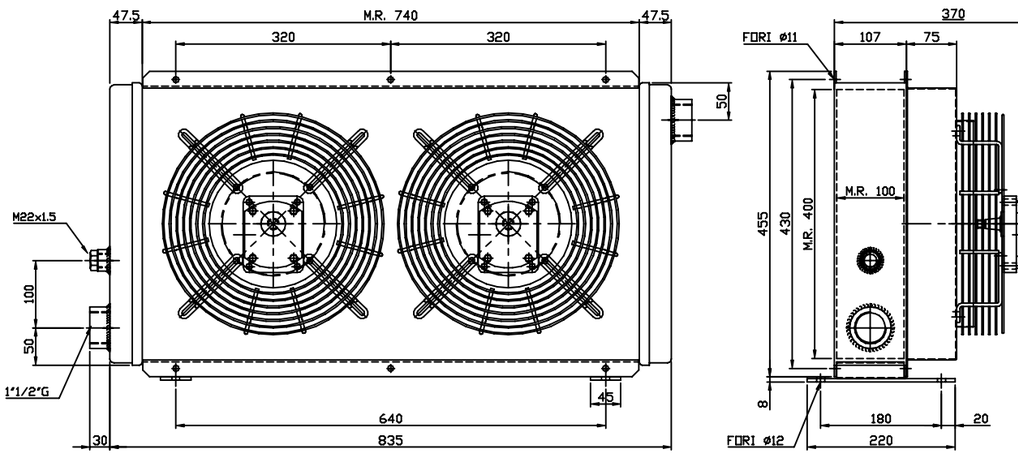
Portata olio - Oil flow: 20-260 lt/1'



Vcc



Vac



GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	18,7 x 2	2840 x 2	68	350 x 2
24	10,1 x 2	2810 x 2	68	350 x 2
230 Hz 50/60	1,1 / 1,55 x 2	3410 / 3740 x 2	44	300 x 2
230/400 Hz 50/60	0,62-0,36 / 0,83-0,48 x 2	3130 / 3350 x 2	44	300 x 2
Predisposizione GR2 - Prepared for GR2		☎	/	300 x 2

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

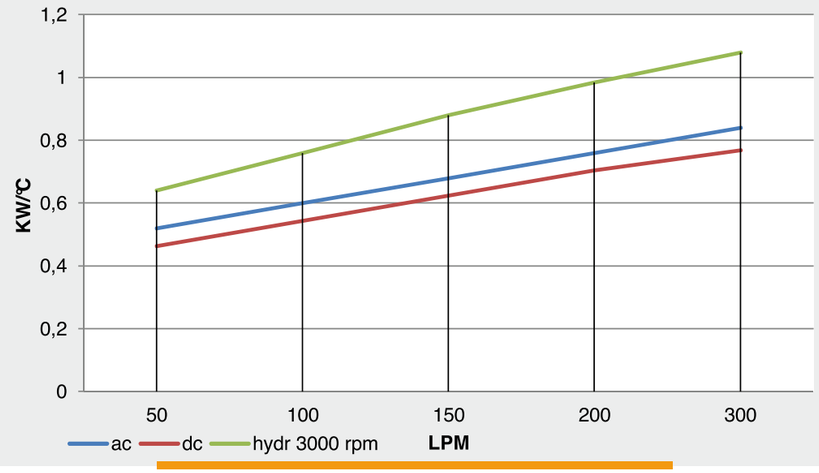
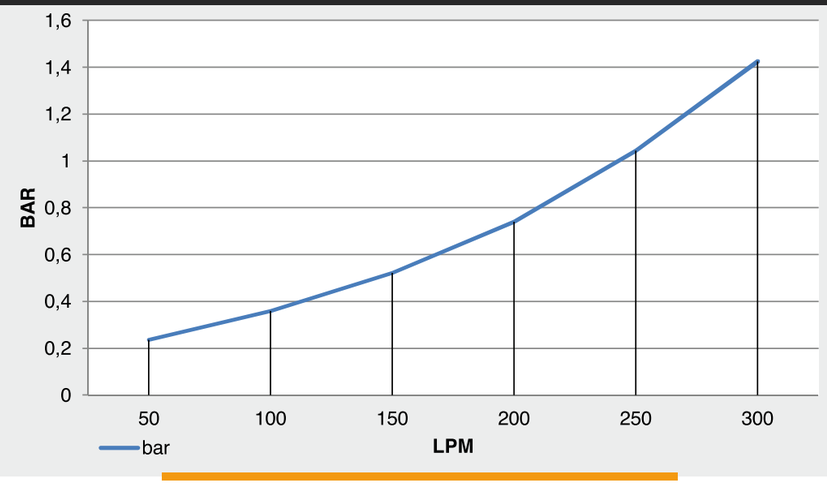
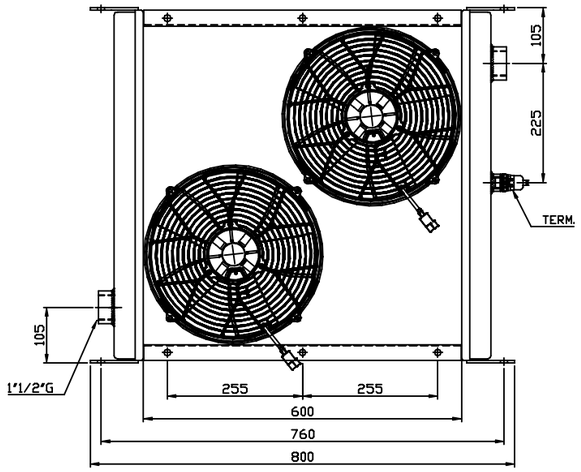
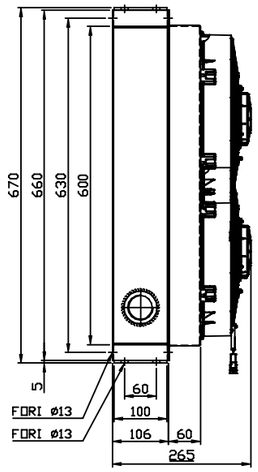


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

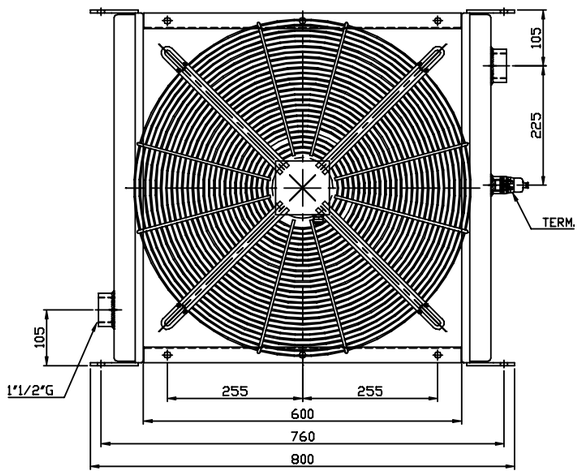


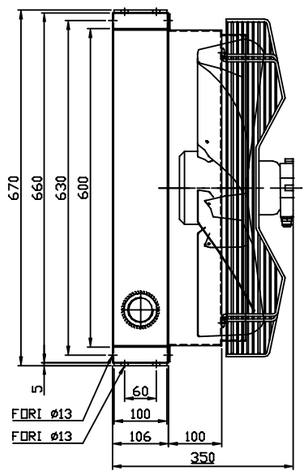
Portata olio - Oil flow: 50-300 lt/1'



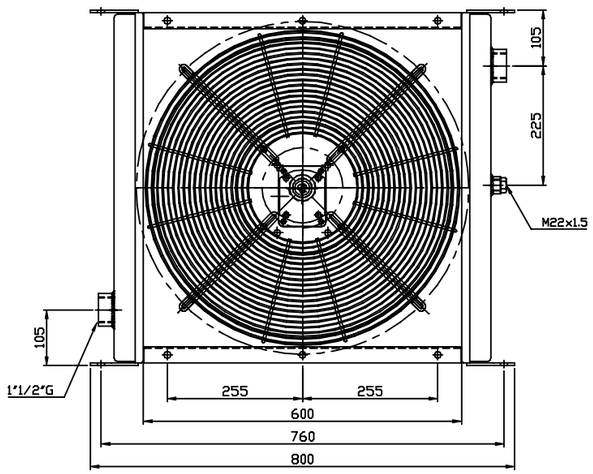


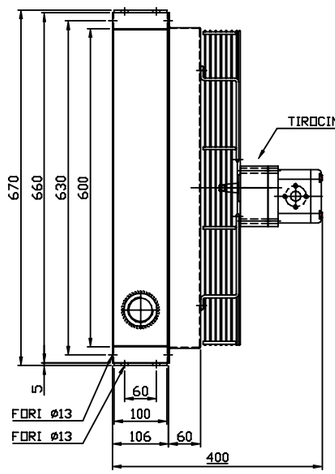
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	20,7 x 2	2490 x 2	68	305 x 2
24	10 x 2	2520 x 2	68	305 x 2
230 Hz 50/60	4,15	10470	54	560
400/400 Hz 50/60	1,32 / 1,60	8910 / 10350	54	560
Predisposizione GR2 - Prepared for GR2		☎	/	560

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

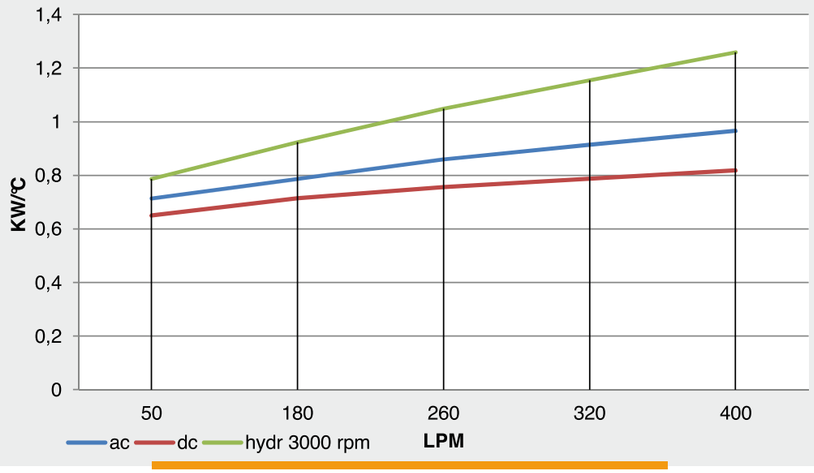
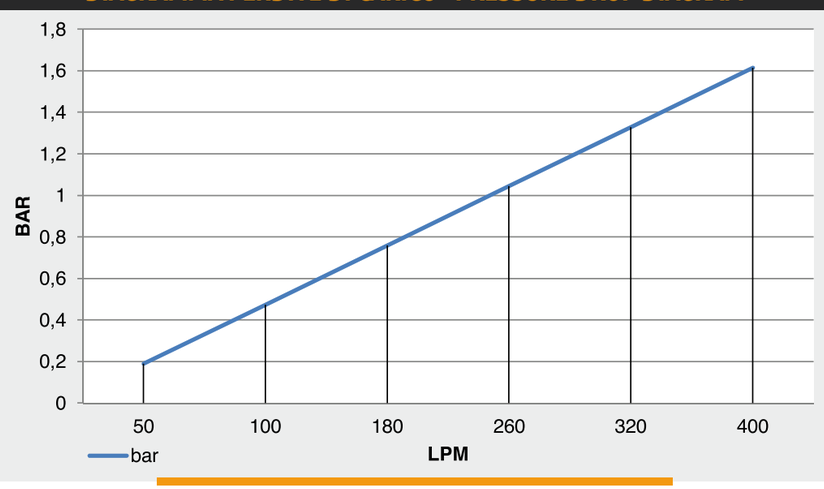
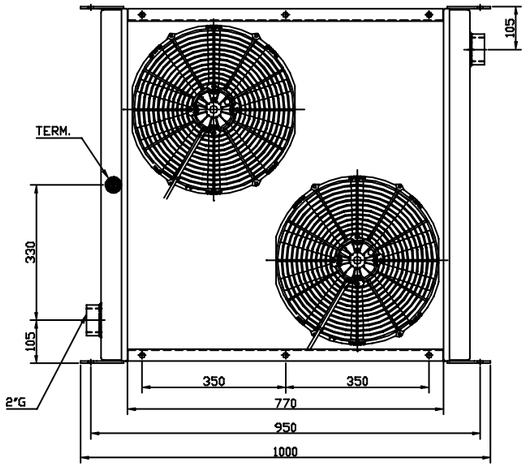
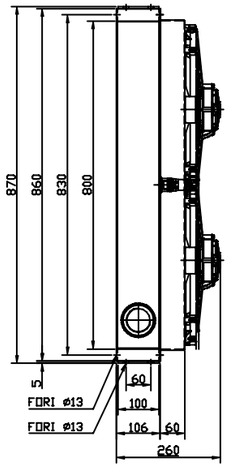


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM

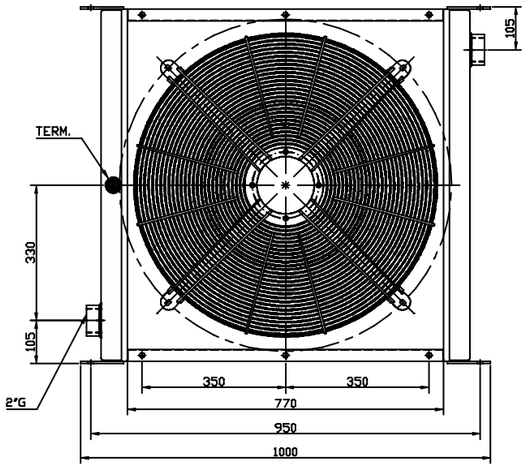


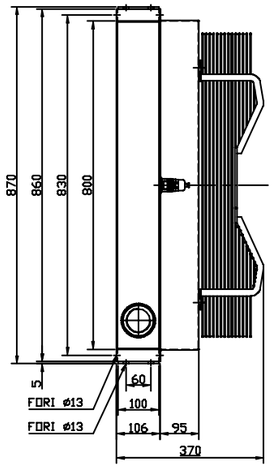
Portata olio - Oil flow: 50-400 lt/1'



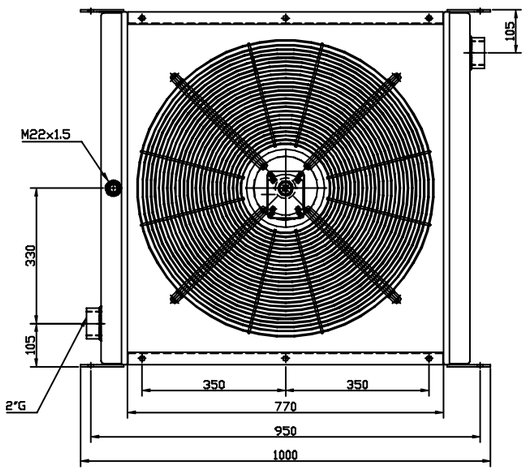


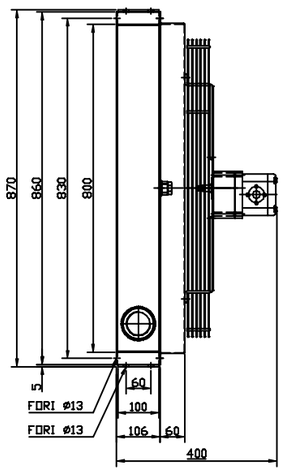
Vcc





Vac





GR2

DATI TECNICI - TECHNICAL DATA

TENSIONE VOLTAGE	ASSORBIMENTO CURRENT	PORTATA ARIA AIR FLOW	PROTEZIONE PROTECTION	Ø
V	A	m^3/h	IP	mm
12	18,1 x 2	3220 x 2	68	385 x 2
24	8 x 2	3080 x 2	68	385 x 2
230 Hz 50/60	3,9	11000	55	710
400/400 Hz 50/60	2,35 / 2,87	13950 / 17000	54	710
Predisposizione GR2 - Prepared for GR2		☎	/	700

DIAGRAMMA DI RENDIMENTO - PERFORMANCE DIAGRAM

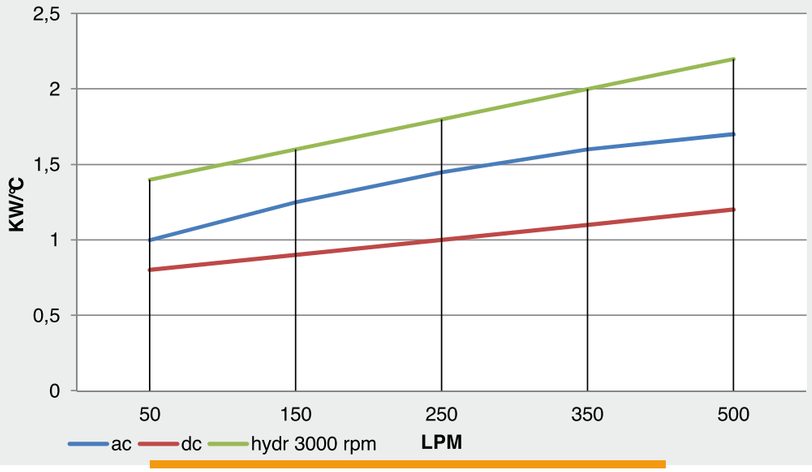


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP DIAGRAM