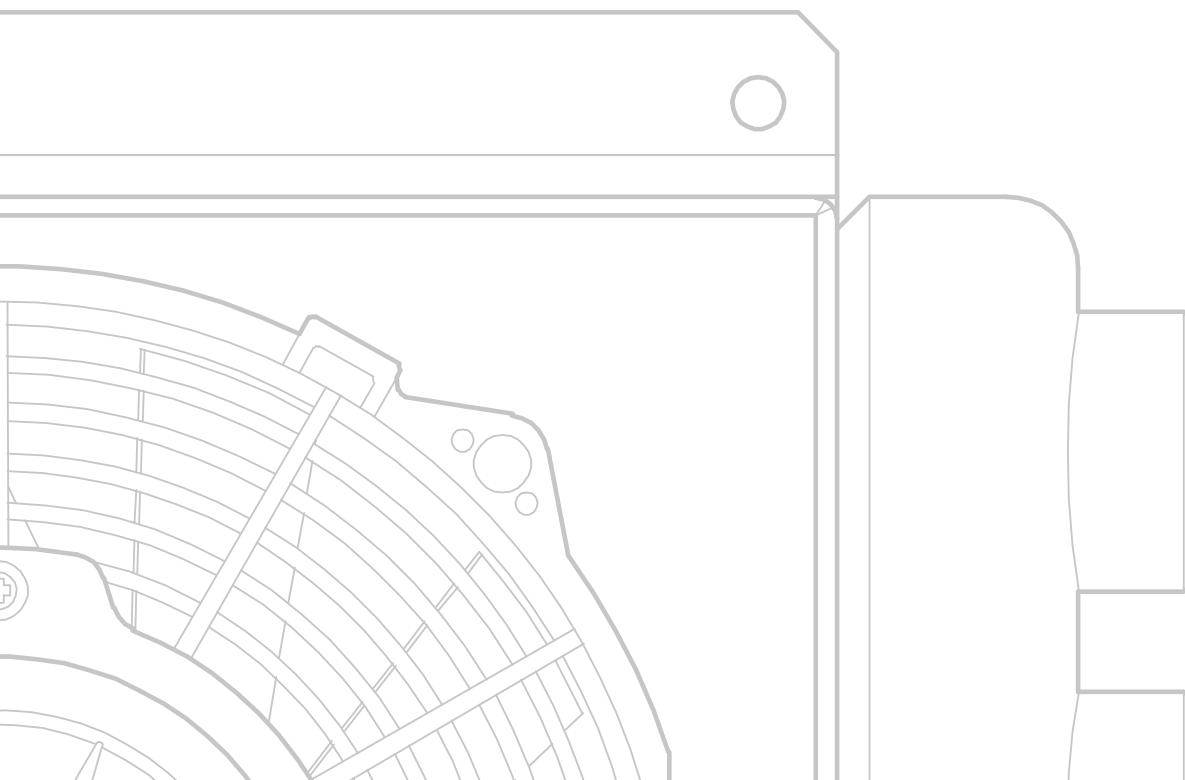


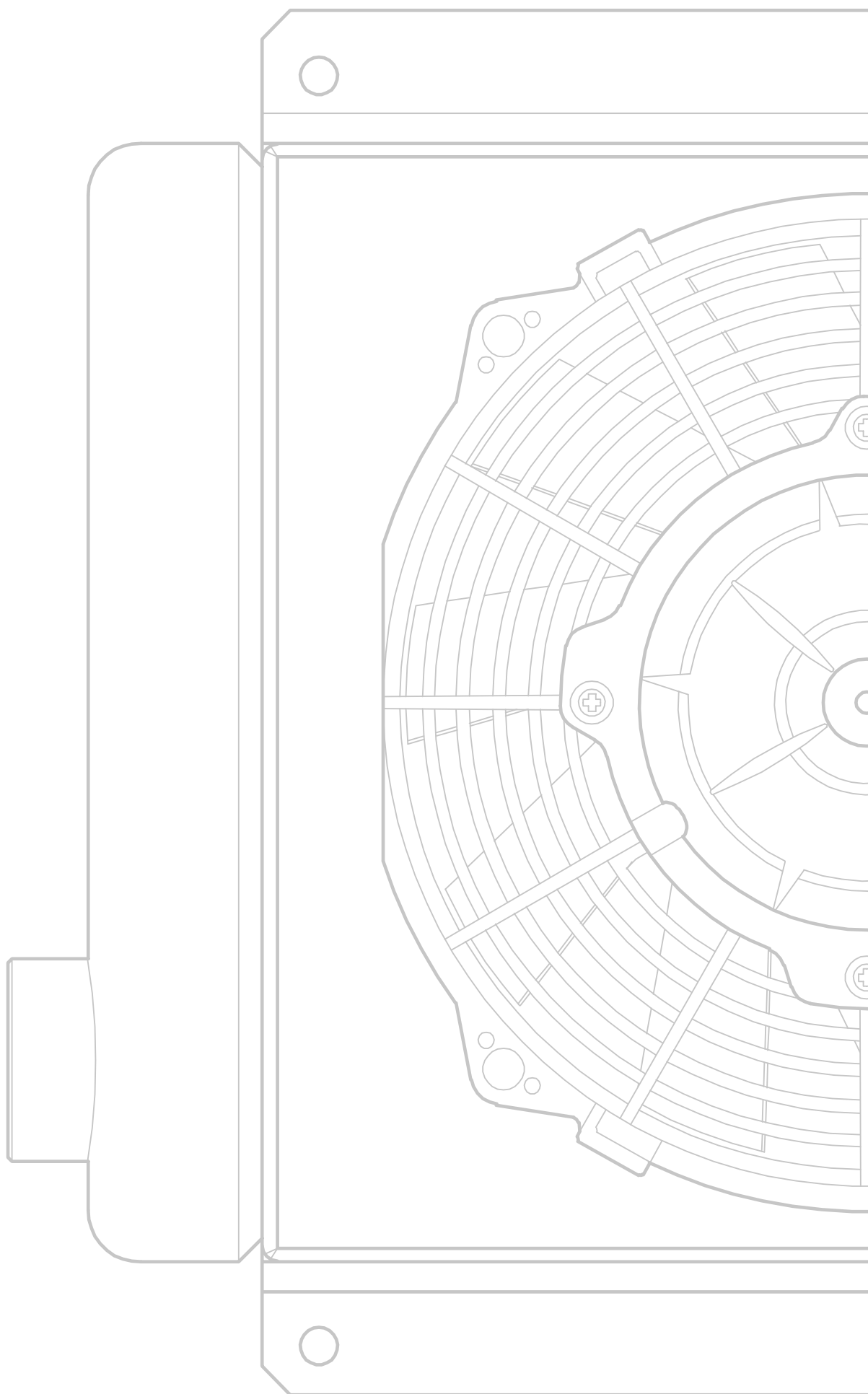
Standard Model Catalog

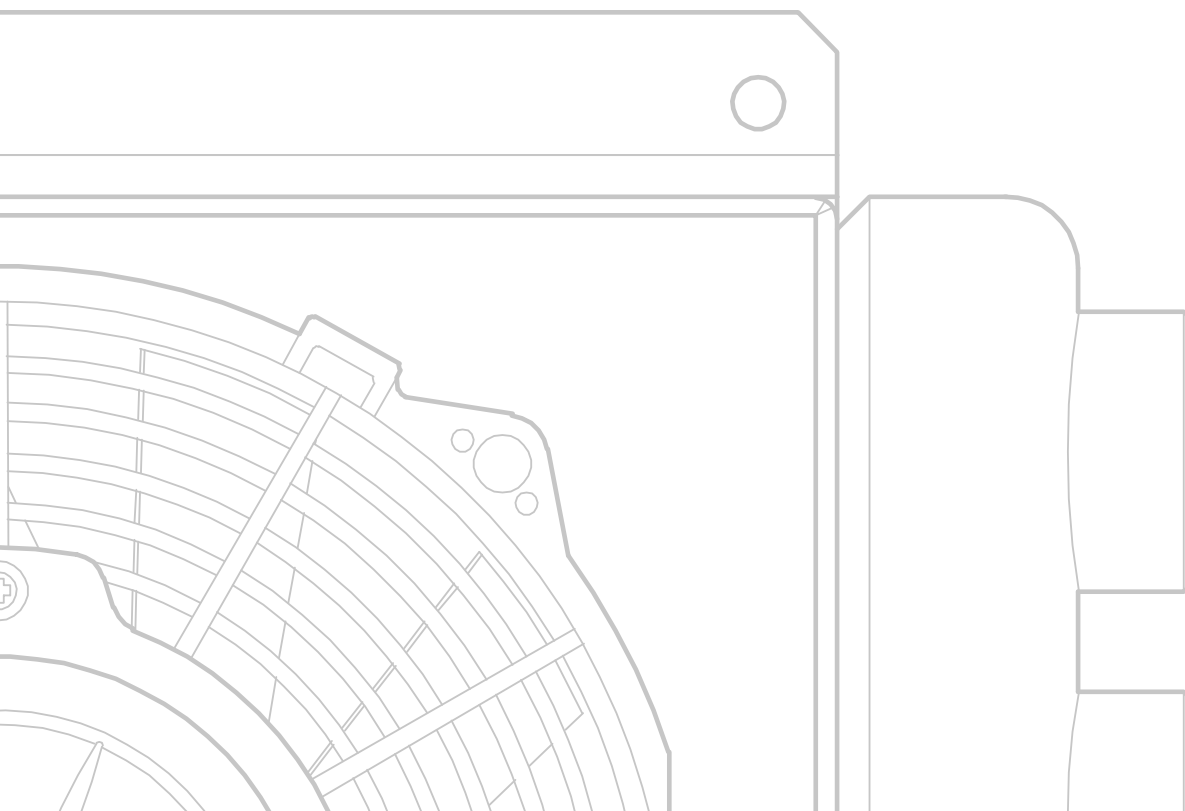




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Introduction

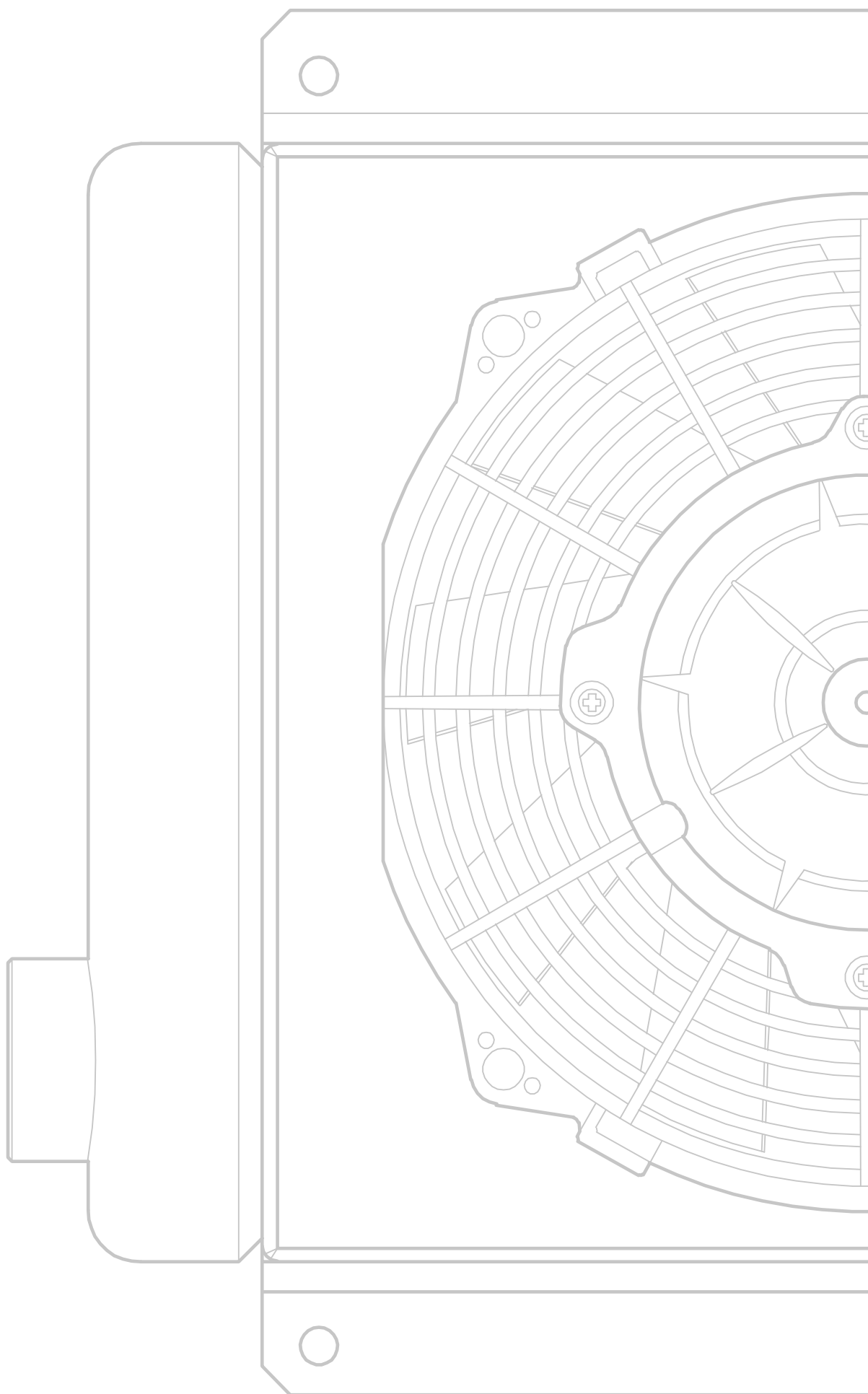
RAAL ITALIA S.r.l. was established in Ferrara in 2005, as the Italian branch office of one of the most important worldwide manufacturer of radiators and heat exchangers, on the market for more than 25 years, RAAL SA Bistrita - Romania.

This center of excellence, developed from the desire of two people, covers an area of 5.000 square meters, where 2.000 are covered and entirely dedicated to assembling, storage and logistics.

Created to satisfy the different needs of manufacturers of motor vehicles, agricultural machinery, construction equipment, industrial applications, internal combustion engines and the market in general of heat exchangers, **RAAL ITALIA** S.r.l. is certainly a point of reference. It is located in a geographically strategic area, close to the motorway, making easier the arrival and departure of the goods.

A characteristic quality of **RAAL ITALIA** S.r.l. is its creativity and ability to implement any type of request, from the technical point of view to logistics, and the flexibility in manufacturing of small or large numbers.

RAAL ITALIA S.r.l. offers also a series of heat exchangers, called STANDARD, always available and specially designed for original equipment manufacturers and for all those who at any time may rely on any type of equipment, from electrical high and low voltage, to hydraulic. Dynamic and flexible company, always ready to reactivity of the market and looking towards the future, with new investment, process and product innovation, plans new challenges and addresses to new evolving markets.



How to choose the
RAAL Heat Exchanger

HOW TO CHOOSE THE RAAL AIR/OIL HEAT EXCHANGER

Below, we'll briefly explain how to choose the Raal heat exchanger and which parameters are used for research. Following this line, It's possible to define which is the product that comes close to the needs of each type of installation.

ESSENTIAL DATA FOR THE CHOICE:

- Power to dissipate in **kW**. If you know the power to dissipate in **Kcal/h**, you have to multiply it by 1.001163 to get the power in **kW**.
- Oil flow in **l/min**.
- **ΔT**: represents the difference between the temperature of the oil inlet and the ambient one.

FIRST CHOICE

Having these three data, you can proceed with the initial choice of the heat exchanger using the "**performance diagram**", present in every product's data sheet.

HOW TO USE THE PERFORMANCE DIAGRAM

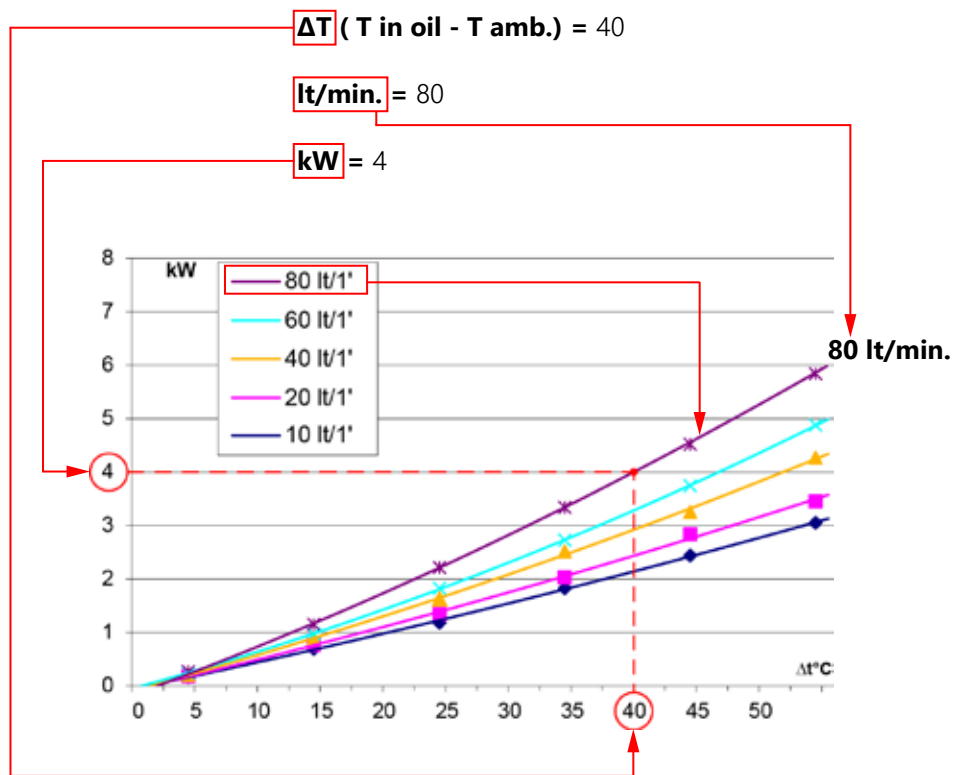
To define the performance of Raal exchanger, you must follow the following points:

1. View, in legend into the graph window, the color of the line that identifies the required liters to exchange
2. Move to the appropriate ΔT and draw a vertical line that crosses the identified line
3. Follow the line horizontally to identify the kW that the model is able to dissipate

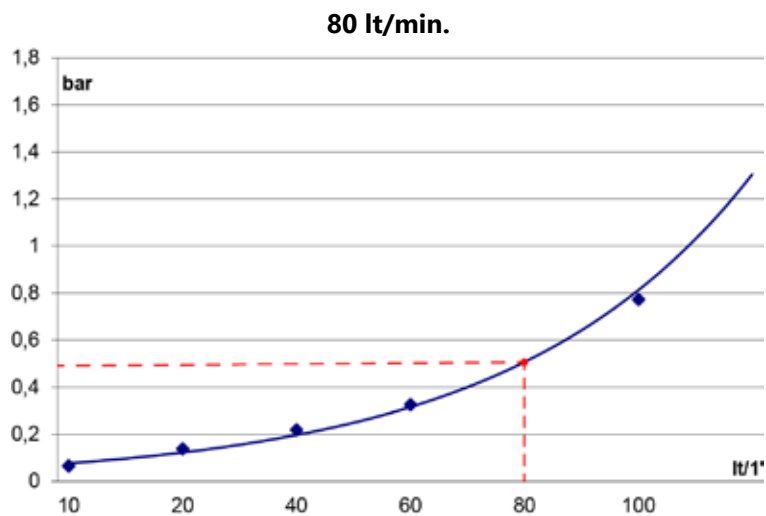
HOW TO USE THE PRESSURE DROP DIAGRAM

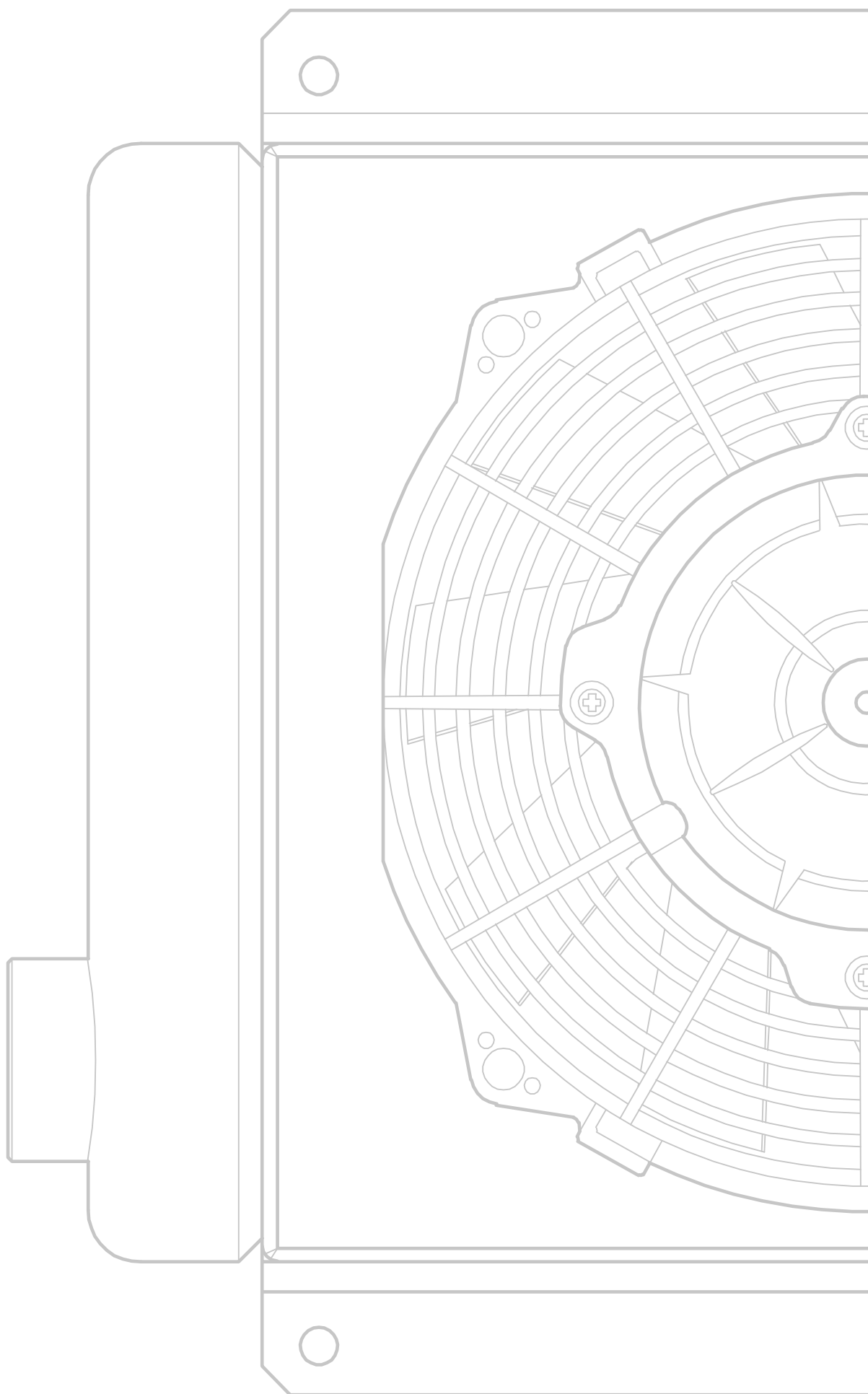
From horizontal axis, which indicates the various oil flows, draw a vertical line that intersects the pressure drop curve of the exchanger. By drawing a horizontal line from the identified intersection, you can read the effective pressure drop expressed in bars.

Example: PERFORMANCE



Example: PRESSURE DROP



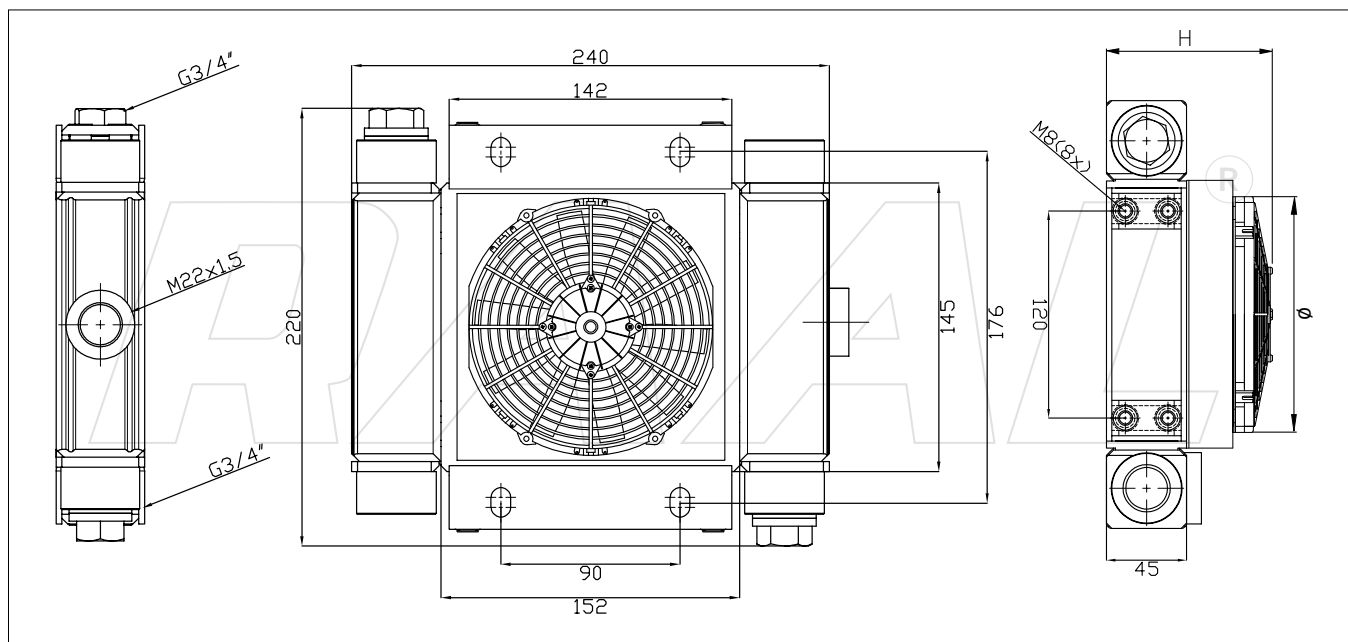




Coolers GR S/D Series

The heat exchangers of the **GR** series are entirely made in aluminum in plate & bar construction system, obtained by the vacuum brazing process, designed for hydraulic systems. The **GR** series is the most common and most complete series in our range, having the possibility to cover 22 different types of cooling, in Single and Double circuit versions.

GRS 25



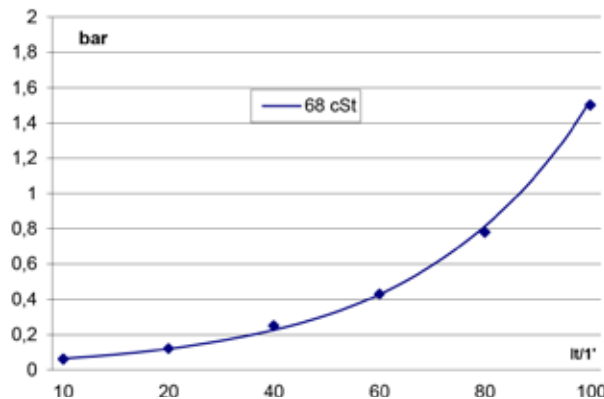
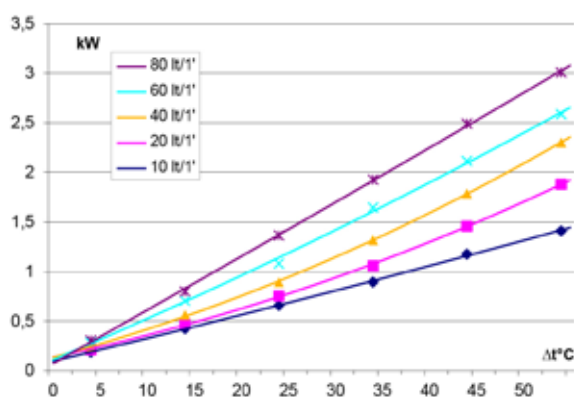
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0189380000	UNCOVERED	45	-	-	0,99	-
RU0189380011	12V Suct.	165	167	395	0,99	6,0 A
RU0189380012	12V Blow.	165	167	408	0,99	6,1 A
RU0189380021	24V Suct.	165	167	295	0,99	2,6 A
RU0189380022	24V Blow.	165	167	423	0,99	3,3 A
RU0189380031	230V-50/60Hz Suct.	155	170	565	0,99	0,23 A
RU0189380032	230V-50/60Hz Blow.	155	170	565	0,99	0,23 A
RU0189380041	230/400V-50/60Hz 3FN Suct.	155	170	535	0,99	0,9 A
RU0189380042	230/400V-50/60Hz 3FN Blow.	155	170	535	0,99	0,9 A
RU0189380051	Pred. Hydraulic. Suct. (Supp. G1)	205	195	880	0,99	0,6 kW
RU0189380052	Pred. Hydraulic. Blow. (Supp. G1)	205	195	880	0,99	0,6 kW

Minimum Range

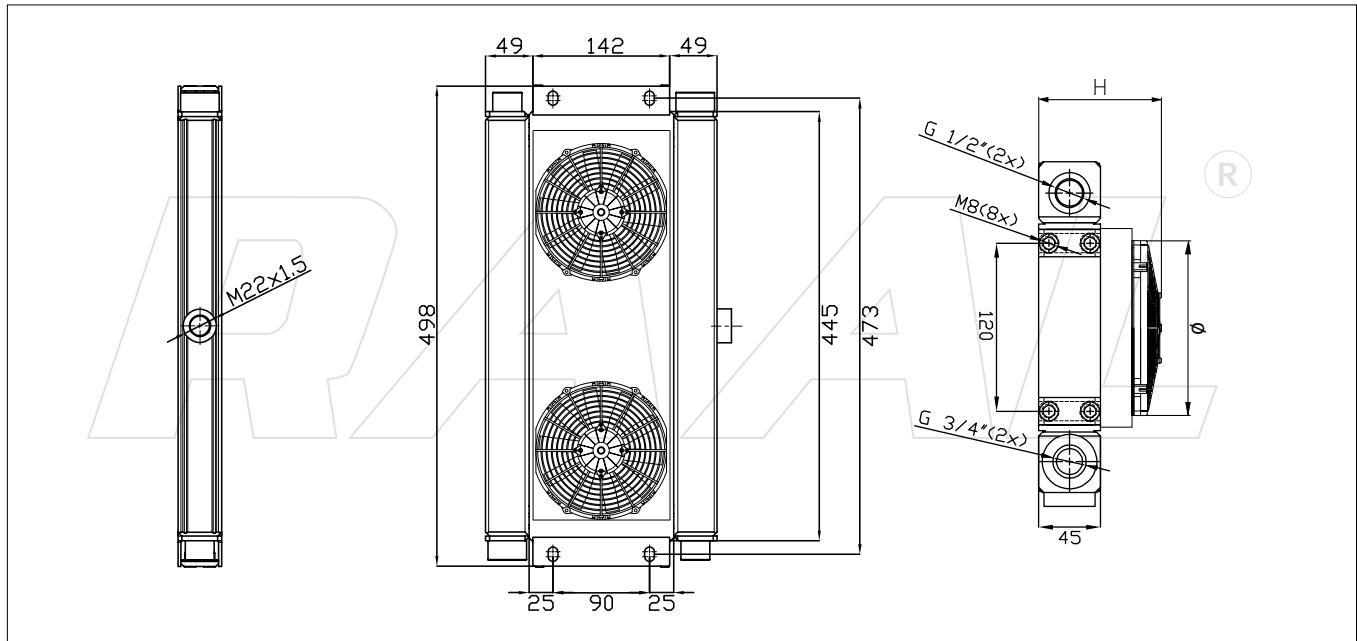
Maximum Range

Kw 1,4 : 10 lt

Kw 3 : 80 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



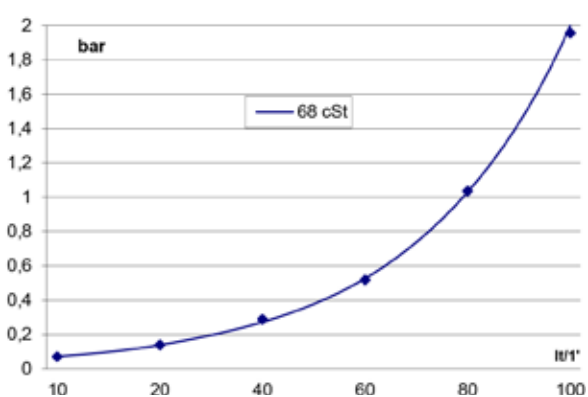
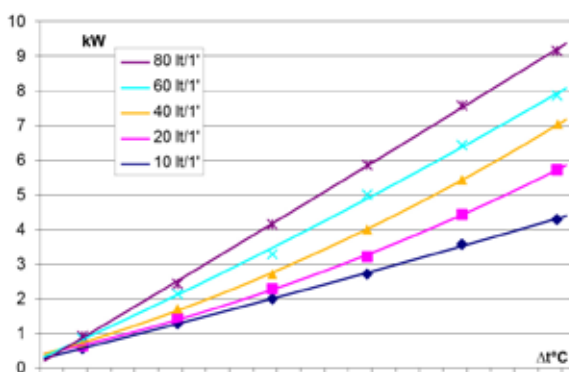
Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0189430000	UNCOVERED	45	-	-	3,04	-
RU0189430011	12V Suct.	170	2 x 225	1378	3,04	14,4 A
RU0189430012	12V Blow.	170	2 x 225	1406	3,04	14,8 A
RU0189430021	24V Suct.	170	2 x 225	1366	3,04	7,2 A
RU0189430022	24V Blow.	170	2 x 225	1472	3,04	7,4 A
RU0189430031	230V-50/60Hz Suct.	165	2 x 200	2050	3,04	0,68 A
RU0189430032	230V-50/60Hz Blow.	165	2 x 200	2050	3,04	0,68 A
RU0189430041	230/400V-50/60Hz 3FN Suct.	165	2 x 200	2040	3,04	0,26 A
RU0189430042	230/400V-50/60Hz 3FN Blow.	165	2 x 200	2040	3,04	0,26 A

Minimum Range

Kw 4,1 : 10 Lt

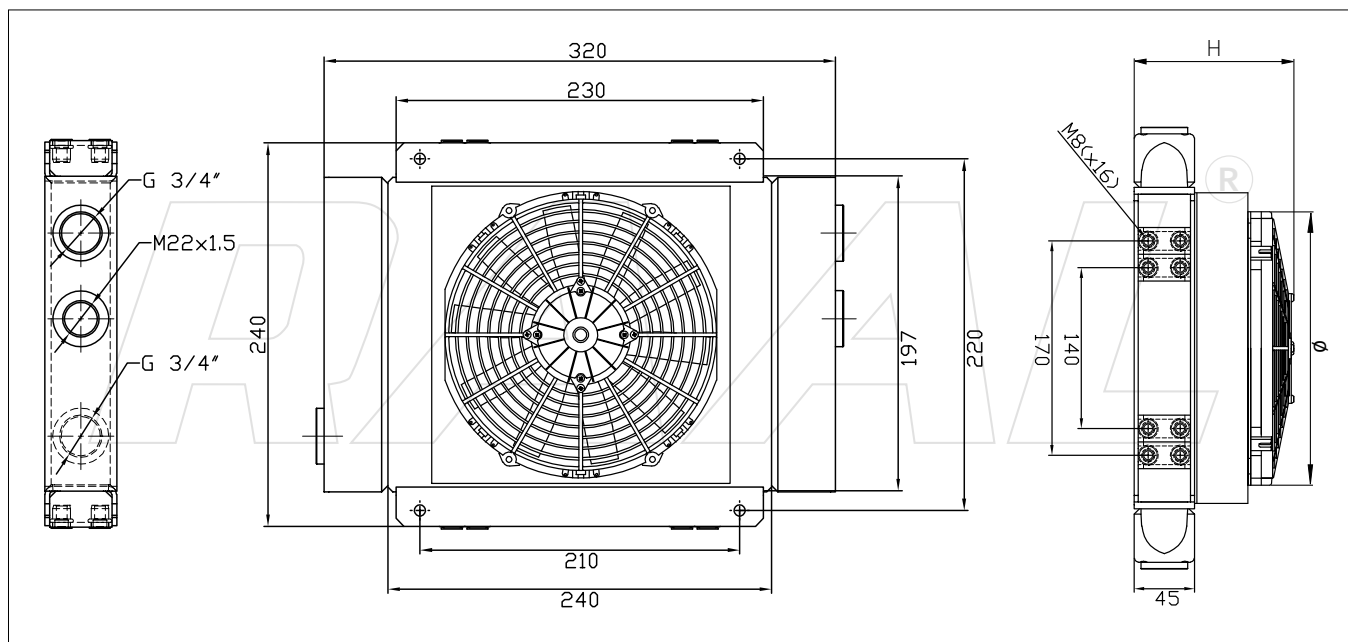
Maximum Range

Kw 9,2 : 80 Lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRS 50



Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0100610000	UNCOVERED	45	-	-	2,13	-
RU0100610011	12V Suct.	140	190	446	2,13	6,4 A
RU0100610012	12V Blow.	140	190	497	2,13	6,4 A
RU0100610021	24V Suct.	140	190	419	2,13	2,8 A
RU0100610022	24V Blow.	140	190	505	2,13	3,3 A
RU0100610031 *	230V-50/60Hz Suct.	135	200	1025	2,13	0,34 A
RU0100610032 *	230V-50/60Hz Blow.	135	200	1025	2,13	0,34 A
RU0100610041	230/400V-50/60Hz 3FN Suct.	135	200	1020	2,13	0,13 A
RU0100610042	230/400V-50/60Hz 3FN Blow.	135	200	1020	2,13	0,13 A
RU0100610051	Pred. Hydraulic. Suct. (Supp. G1)	185	195	958	2,13	0,7 kW
RU0100610052	Pred. Hydraulic. Blow. (Supp. G1)	185	195	958	2,13	0,7 kW

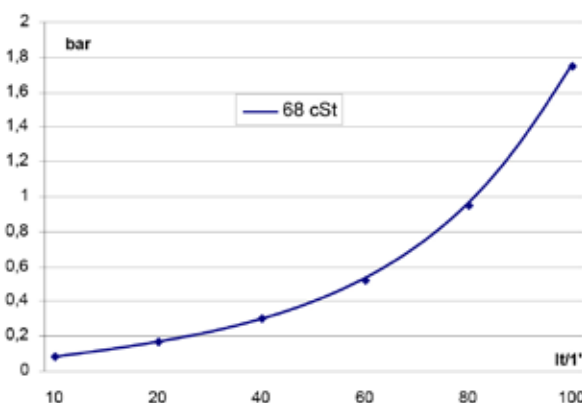
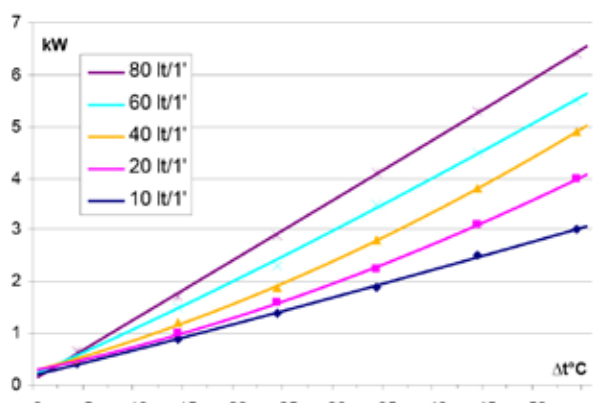
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

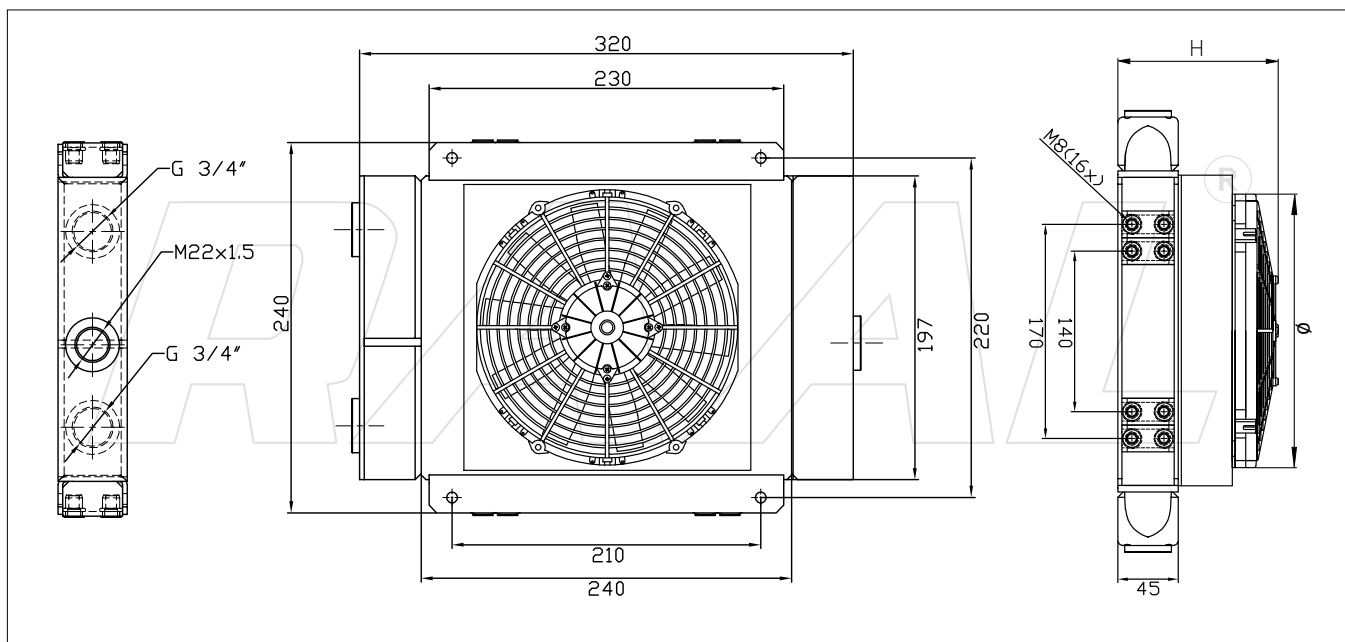
Maximum Range

Kw 3 : 10 lt

Kw 6,3 : 80 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RU0100620000	UNCOVERED	45	-	-	2,13	-
RU0100620011	12V Suct.	140	190	446	2,13	6,4 A
RU0100620012	12V Blow.	140	190	497	2,13	6,4 A
RU0100620021	24V Suct.	140	190	419	2,13	2,8 A
RU0100620022	24V Blow.	140	190	505	2,13	3,3 A
RU0100620031 *	230V-50/60Hz Suct.	135	200	1025	2,13	0,34 A
RU0100620032 *	230V-50/60Hz Blow.	135	200	1025	2,13	0,34 A
RU0100620041	230/400V-50/60Hz 3FN Suct.	135	200	1020	2,13	0,13 A
RU0100620042	230/400V-50/60Hz 3FN Blow.	135	200	1020	2,13	0,13 A
RU0100620051	Pred. Hydraulic. Suct. (Supp. G1)	185	195	958	2,13	0,7 kW
RU0100620052	Pred. Hydraulic. Blow. (Supp. G1)	185	195	958	2,13	0,7 kW

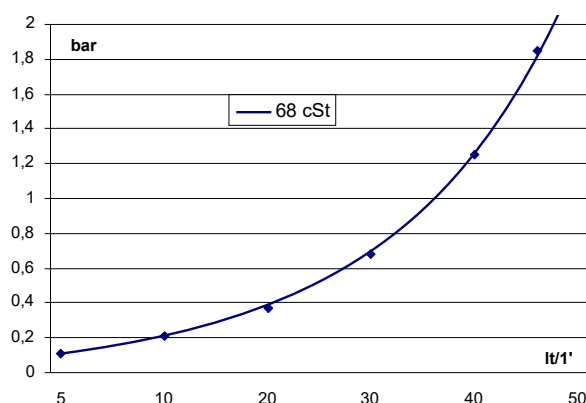
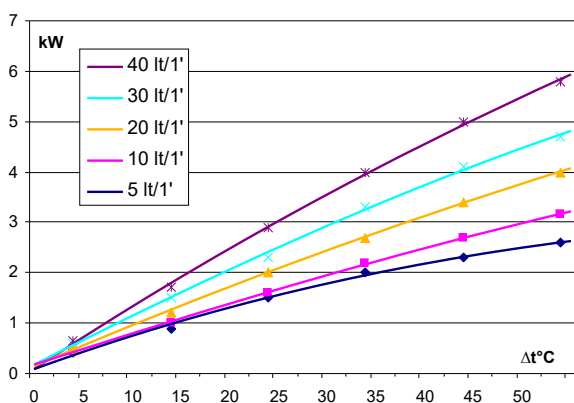
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

Maximum Range

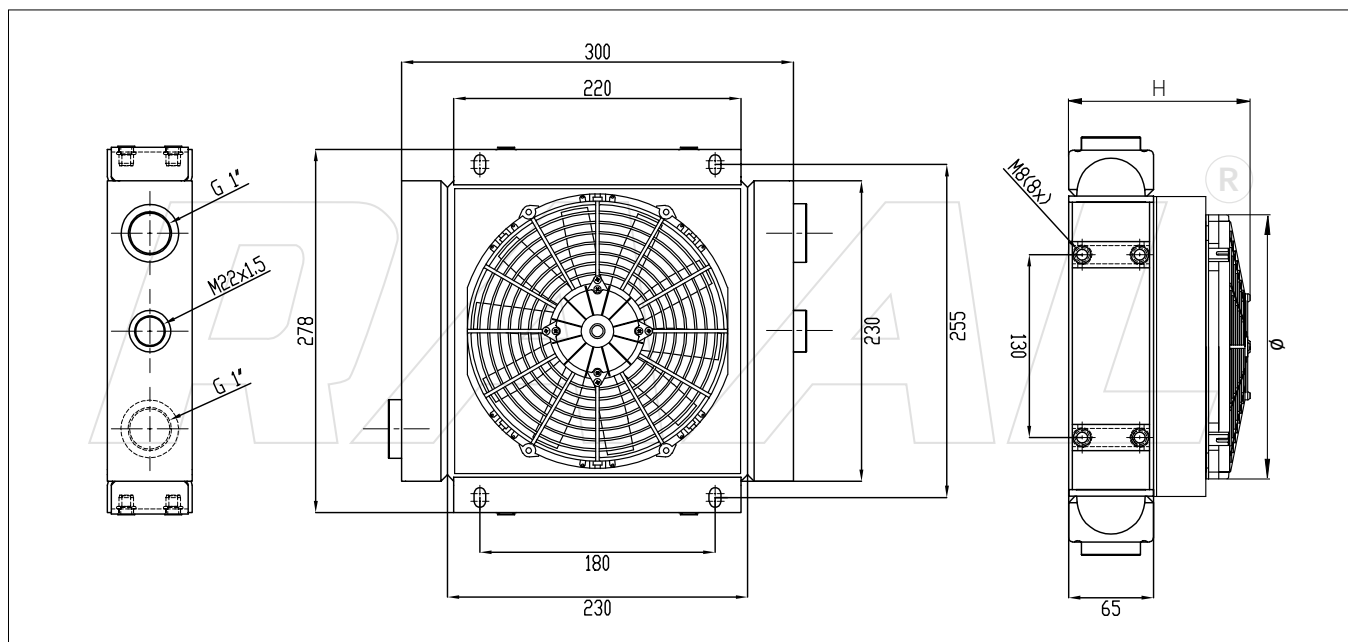
Kw 2,8 : 5 lt

Kw 5,9 : 40 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRS 80



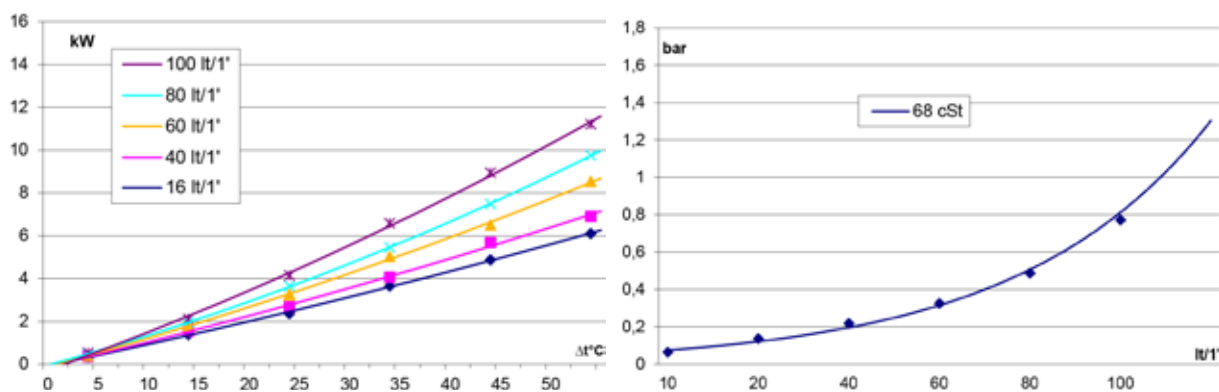
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0345380000	UNCOVERED	65	-	-	3,43	-
RU0345380011	12V Suct.	170	225	689	3,43	7,2 A
RU0345380012	12V Blow.	170	225	703	3,43	7,4 A
RU0345380021	24V Suct.	170	225	683	3,43	3,6 A
RU0345380022	24V Blow.	170	225	736	3,43	3,7 A
RU0345380031	230V-50/60Hz Suct.	165	200	1025	3,43	0,34 A
RU0345380032	230V-50/60Hz Blow.	165	200	1025	3,43	0,34 A
RU0345380041	230/400V-50/60Hz 3FN Suct.	165	200	1020	3,43	0,13 A
RU0345380042	230/400V-50/60Hz 3FN Blow.	165	200	1020	3,43	0,13 A
RU0345380051	Pred. Hydraulic. Suct. (Supp. G1)	215	200	958	3,43	0,7 kW
RU0345380052	Pred. Hydraulic. Blow. (Supp. G1)	215	200	958	3,43	0,7 kW

Minimum Range

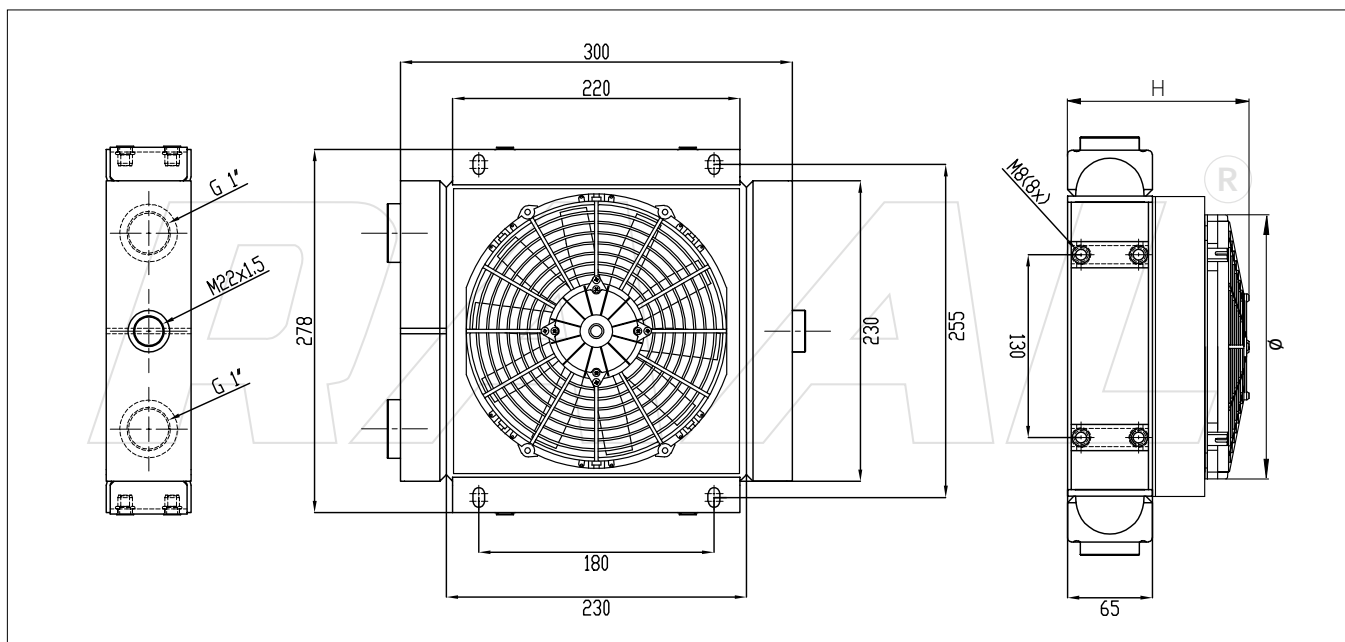
Maximum Range

Kw 6 : 16 lt

Kw 16 : 100 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



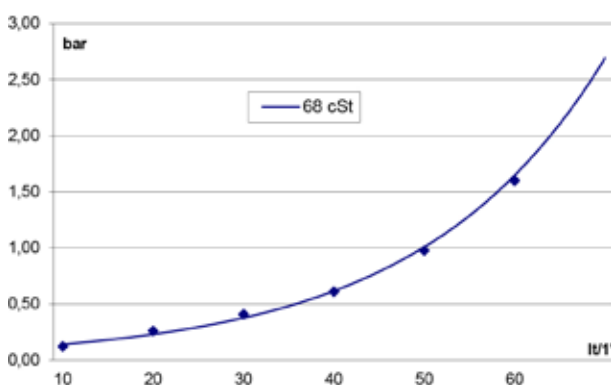
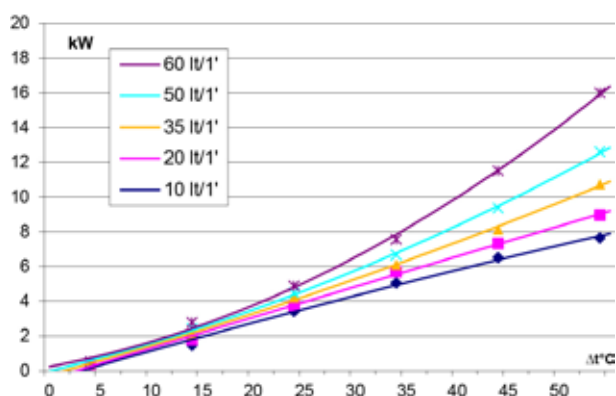
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RU0345390000	UNCOVERED	65	-	-	3,43	-
RU0345390011	12V Suct.	170	225	689	3,43	7,2 A
RU0345390012	12V Blow.	170	225	703	3,43	7,4 A
RU0345390021	24V Suct.	170	225	683	3,43	3,6 A
RU0345390022	24V Blow.	170	225	736	3,43	3,7 A
RU0345390031	230V-50/60Hz Suct.	165	200	1025	3,43	0,34 A
RU0345390032	230V-50/60Hz Blow.	165	200	1025	3,43	0,34 A
RU0345390041	230/400V-50/60Hz 3FN Suct.	165	200	1020	3,43	0,13 A
RU0345390042	230/400V-50/60Hz 3FN Blow.	165	200	1020	3,43	0,13 A
RU0345390051	Pred. Hydraulic. Suct. (Supp. G1)	215	200	958	3,43	0,7 kW
RU0345390052	Pred. Hydraulic. Blow. (Supp. G1)	215	200	958	3,43	0,7 kW

Minimum Range

Maximum Range

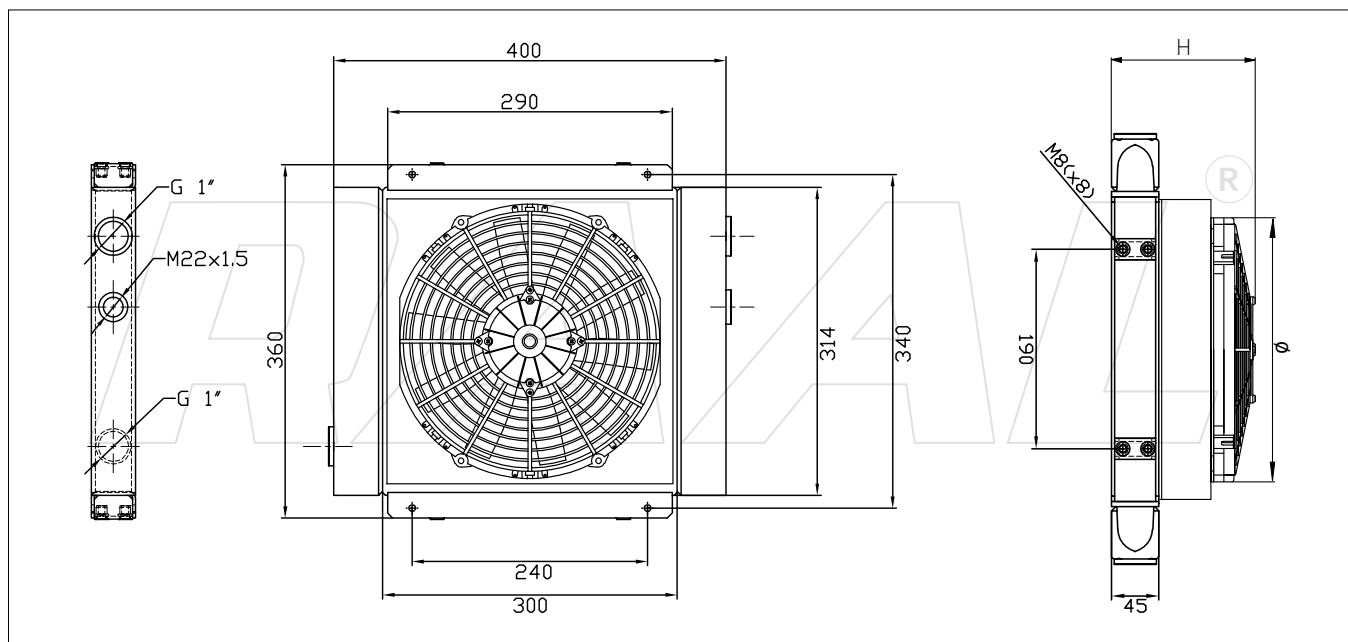
Kw 7 : 10 Lt

Kw 16 : 60 Lt



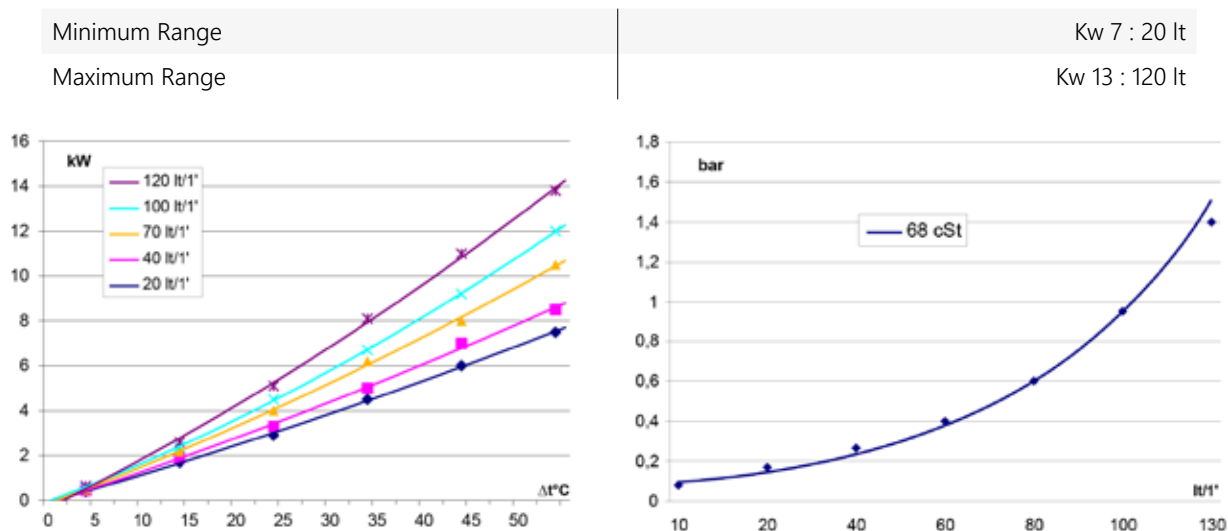
Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRS 100

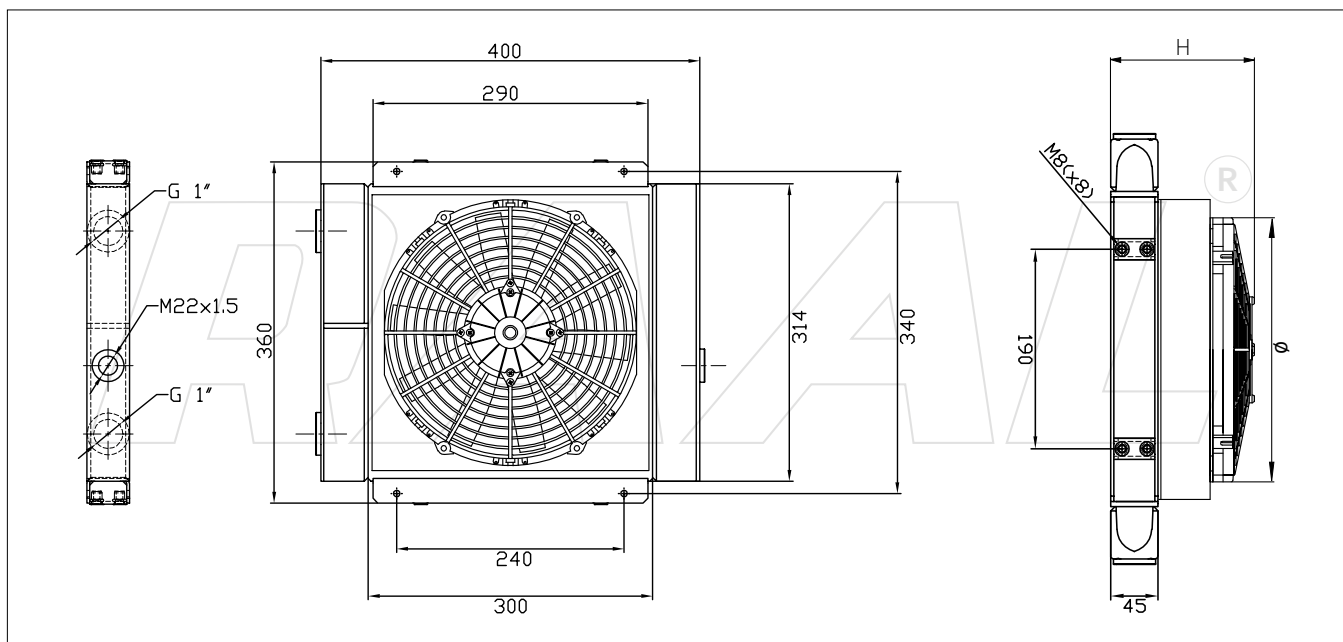


Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0100630000	UNCOVERED	45	-	-	4,24	-
RU0100630011	12V Suct.	210	305	1839	4,24	16,5 A
RU0100630012	12V Blow.	210	305	1736	4,24	14,9 A
RU0100630021	24V Suct.	210	305	2161	4,24	10,3 A
RU0100630022	24V Blow.	210	305	2050	4,24	9,1 A
RU0100630031 *	230V-50/60Hz Suct.	175	300	3745	4,24	1,55 A
RU0100630032 *	230V-50/60Hz Blow.	175	300	3745	4,24	1,55 A
RU0100630041	230/400V-50/60Hz 3FN Suct.	175	300	3350	4,24	0,48 A
RU0100630042	230/400V-50/60Hz 3FN Blow.	175	300	3350	4,24	0,48 A
RU0100630051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	4,24	0,41 kW
RU0100630052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	4,24	0,41 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RU0100640000	UNCOVERED	45	-	-	4,24	-
RU0100640011	12V Suct.	210	305	1839	4,24	16,5 A
RU0100640012	12V Blow.	210	305	1736	4,24	14,9 A
RU0100640021	24V Suct.	210	305	2161	4,24	10,3 A
RU0100640022	24V Blow.	210	305	2050	4,24	9,1 A
RU0100640031 *	230V-50/60Hz Suct.	175	300	3745	4,24	1,55 A
RU0100640032 *	230V-50/60Hz Blow.	175	300	3745	4,24	1,55 A
RU0100640041	230/400V-50/60Hz 3FN Suct.	175	300	3350	4,24	0,48 A
RU0100640042	230/400V-50/60Hz 3FN Blow.	175	300	3350	4,24	0,48 A
RU0100640051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	4,24	0,41 kW
RU0100640052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	4,24	0,41 kW

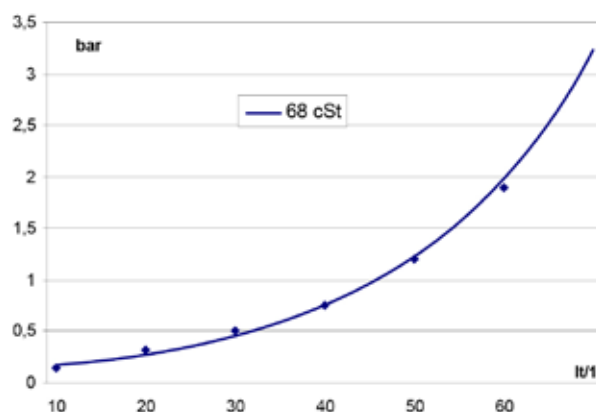
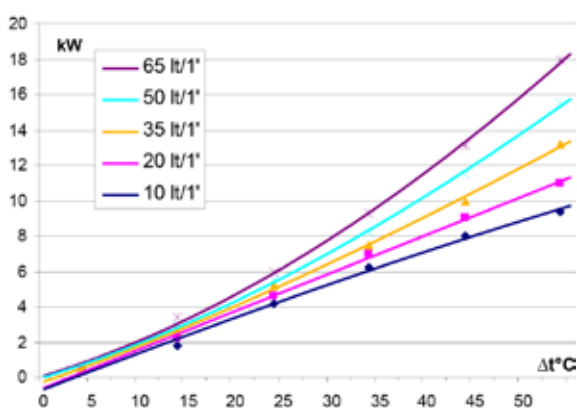
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

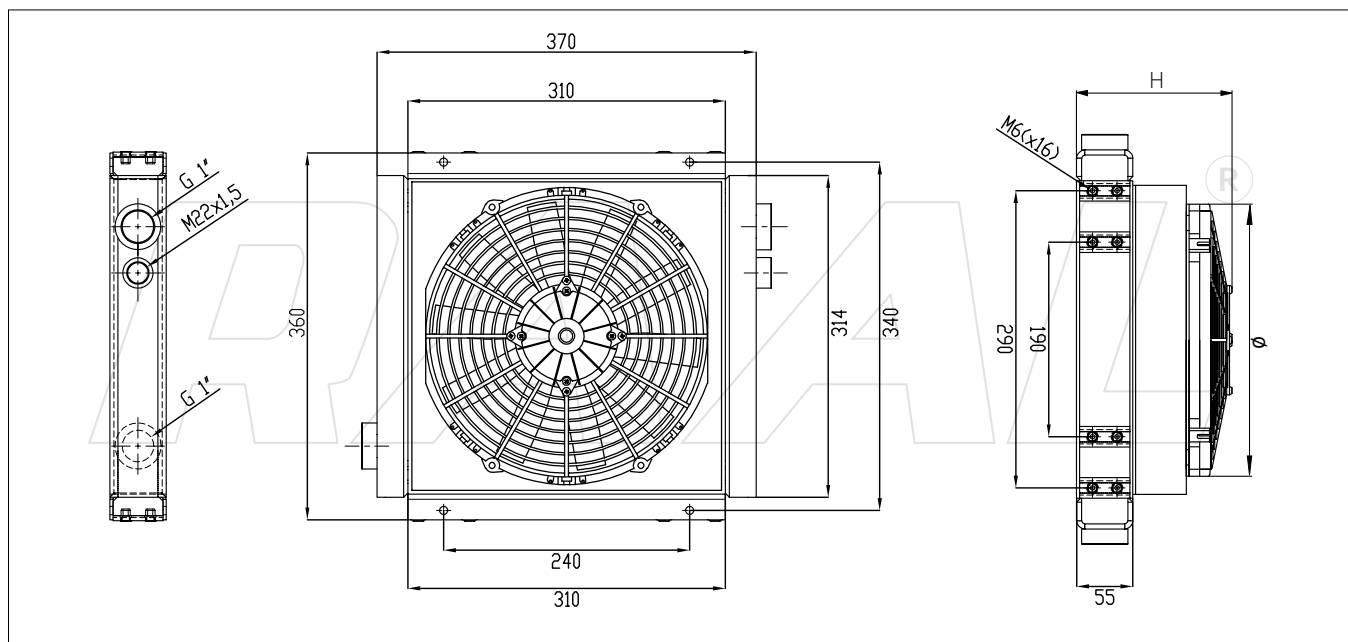
Maximum Range

Kw 9 : 10 lt

Kw 18 : 65 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



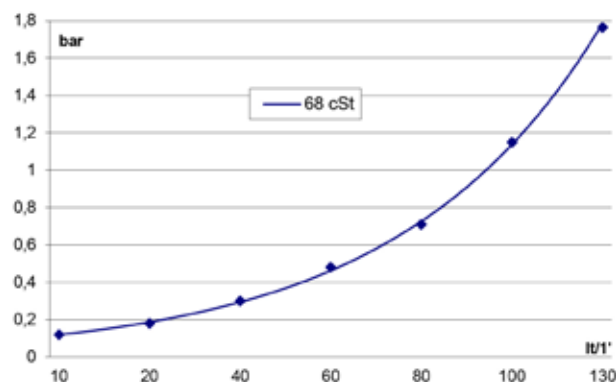
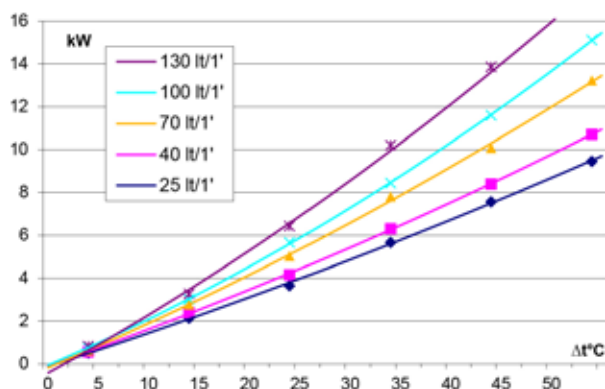
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0146180000	UNCOVERED	55	-	-	5,35	-
RU0146180011	12V Suct.	210	305	1839	5,35	16,5 A
RU0146180012	12V Blow.	210	305	1736	5,35	14,9 A
RU0146180021	24V Suct.	210	305	2161	5,35	10,3 A
RU0146180022	24V Blow.	210	305	2050	5,35	9,1 A
RU0146180031	230V-50/60Hz Suct.	175	300	3745	5,35	1,55 A
RU0146180032	230V-50/60Hz Blow.	175	300	3745	5,35	1,55 A
RU0146180041	230/400V-50/60Hz 3FN Suct.	175	300	3350	5,35	0,48 A
RU0146180042	230/400V-50/60Hz 3FN Blow.	175	300	3350	5,35	0,48 A
RU0146180051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	5,35	0,41 kW
RU0146180052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	5,35	0,41 kW

Minimum Range

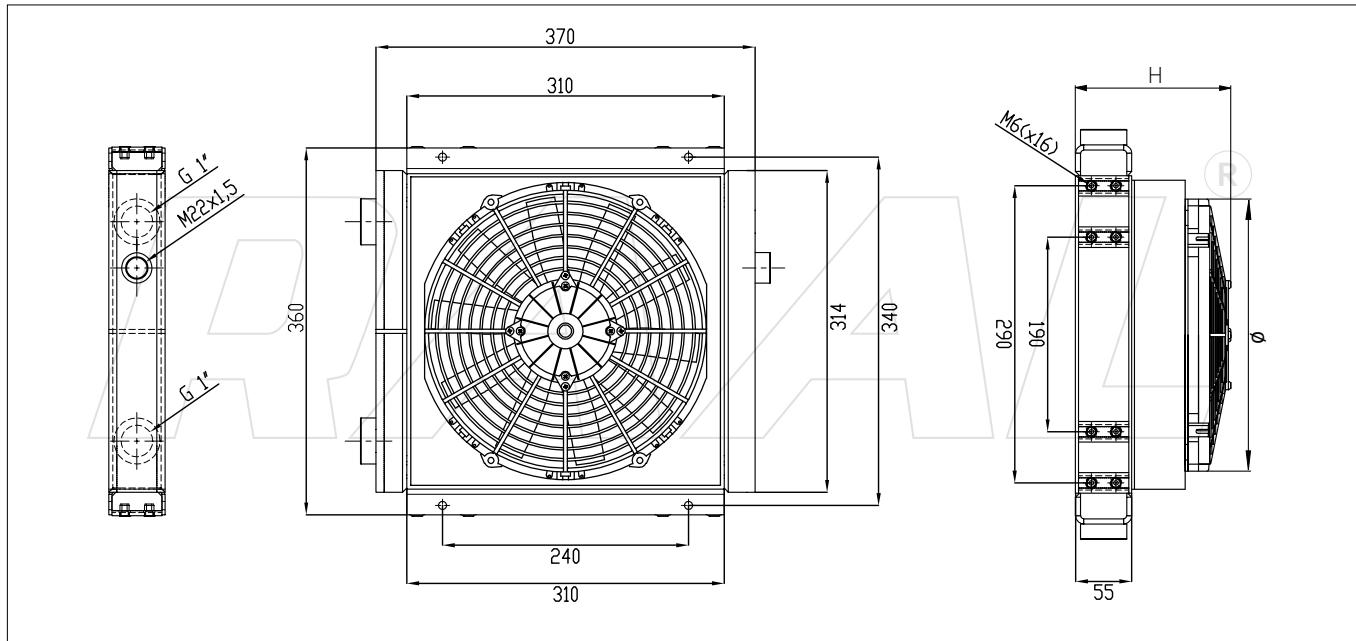
Maximum Range

Kw 9 : 25 lt

Kw 16 : 130 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



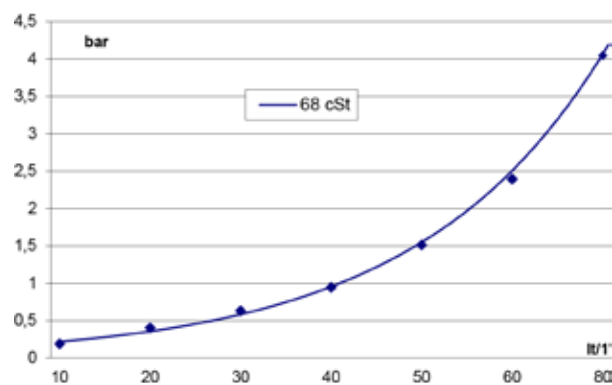
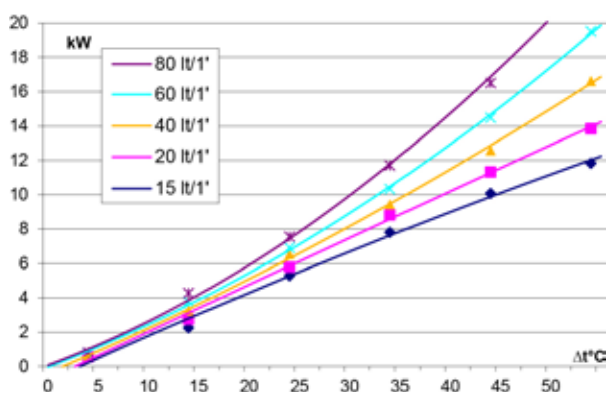
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RU0345400000	UNCOVERED	55	-	-	5,35	-
RU0345400011	12V Suct.	210	305	1839	5,35	16,5 A
RU0345400012	12V Blow.	210	305	1736	5,35	14,9 A
RU0345400021	24V Suct.	210	305	2161	5,35	10,3 A
RU0345400022	24V Blow.	210	305	2050	5,35	9,1 A
RU0345400031	230V-50/60Hz Suct.	175	300	3745	5,35	1,55 A
RU0345400032	230V-50/60Hz Blow.	175	300	3745	5,35	1,55 A
RU0345400041	230/400V-50/60Hz 3FN Suct.	175	300	3350	5,35	0,48 A
RU0345400042	230/400V-50/60Hz 3FN Blow.	175	300	3350	5,35	0,48 A
RU0345400051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	5,35	0,41 kW
RU0345400052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	5,35	0,41 kW

Minimum Range

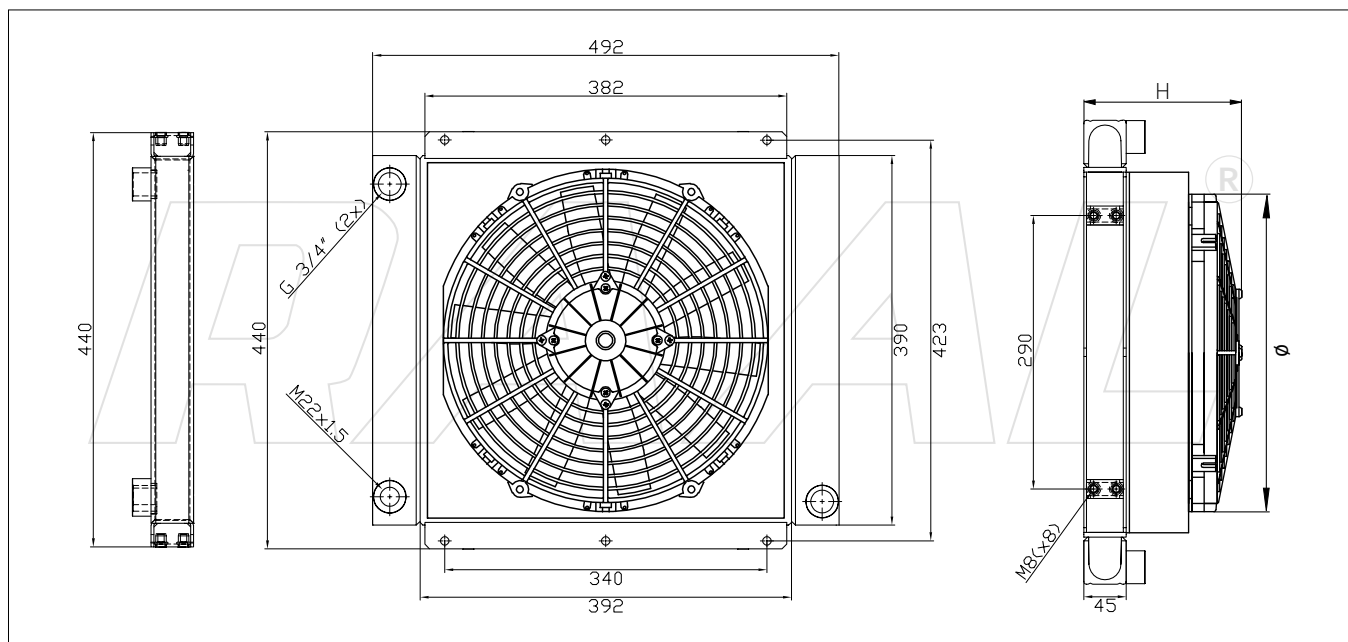
Maximum Range

Kw 10 : 15 lt

Kw 20 : 80 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



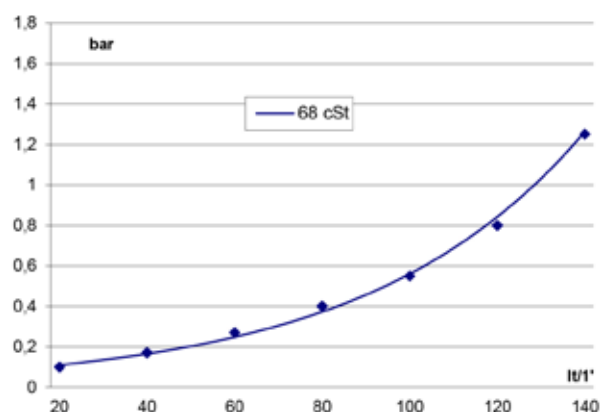
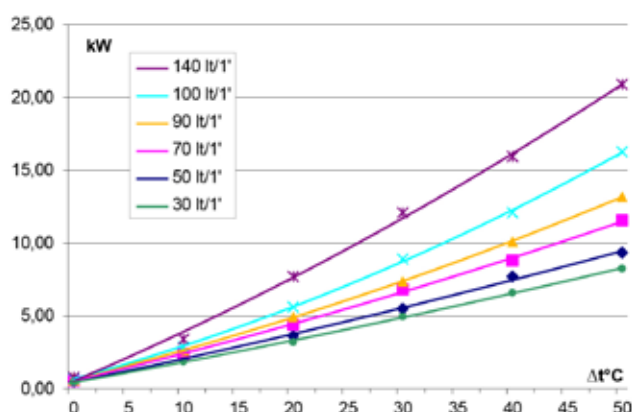
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0273380000	UNCOVERED	45	-	-	6,90	-
RU0273380011	12V Suct.	210	305	1839	6,90	16,5 A
RU0273380012	12V Blow.	210	305	1736	6,90	14,9 A
RU0273380021	24V Suct.	210	305	2161	6,90	10,3 A
RU0273380022	24V Blow.	210	305	2050	6,90	9,1 A
RU0273380031	230V-50/60Hz Suct.	175	300	3745	6,90	1,55 A
RU0273380032	230V-50/60Hz Blow.	175	300	3745	6,90	1,55 A
RU0273380041	230/400V-50/60Hz 3FN Suct.	175	300	3350	6,90	0,48 A
RU0273380042	230/400V-50/60Hz 3FN Blow.	175	300	3350	6,90	0,48 A
RU0273380051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	6,90	0,41 kW
RU0273380052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	6,90	0,41 kW

Minimum Range

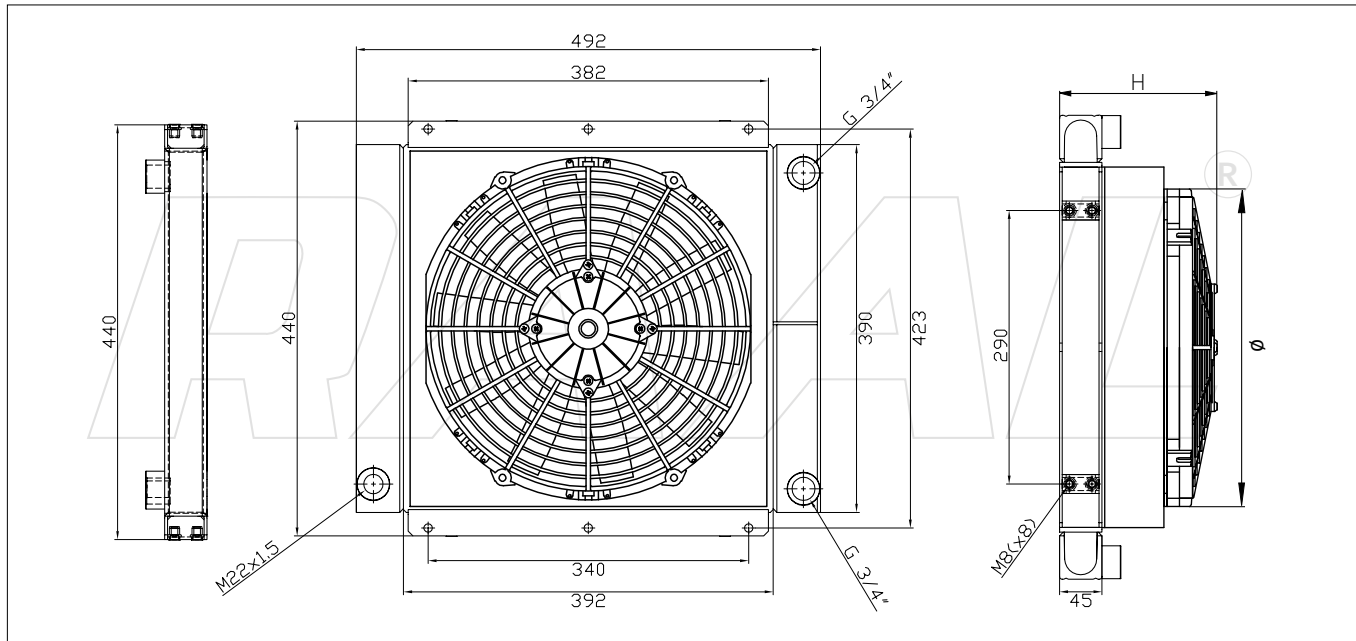
Maximum Range

Kw 8 : 30 lt

Kw 22 : 140 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



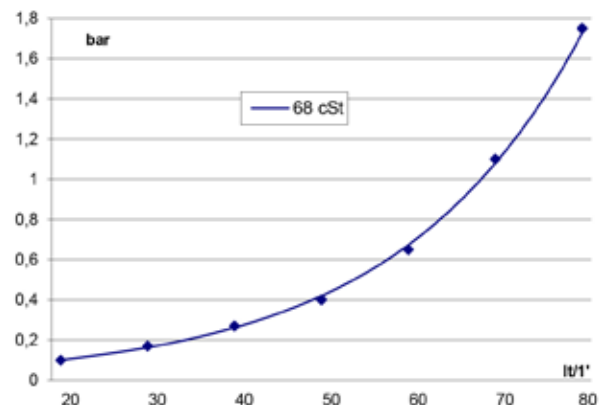
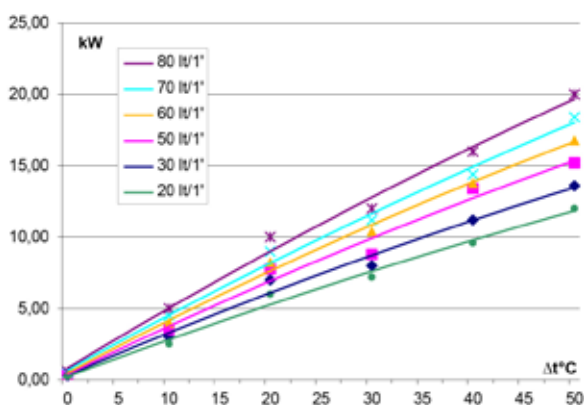
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RU0281800000	UNCOVERED	45	-	-	6,90	-
RU0281800011	12V Suct.	210	305	1839	6,90	16,5 A
RU0281800012	12V Blow.	210	305	1736	6,90	14,9 A
RU0281800021	24V Suct.	210	305	2161	6,90	10,3 A
RU0281800022	24V Blow.	210	305	2050	6,90	9,1 A
RU0281800031	230V-50/60Hz Suct.	175	300	3745	6,90	1,55 A
RU0281800032	230V-50/60Hz Blow.	175	300	3745	6,90	1,55 A
RU0281800041	230/400V-50/60Hz 3FN Suct.	175	300	3350	6,90	0,48 A
RU0281800042	230/400V-50/60Hz 3FN Blow.	175	300	3350	6,90	0,48 A
RU0281800051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	6,90	0,41 kW
RU0281800052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	6,90	0,41 kW

Minimum Range

Maximum Range

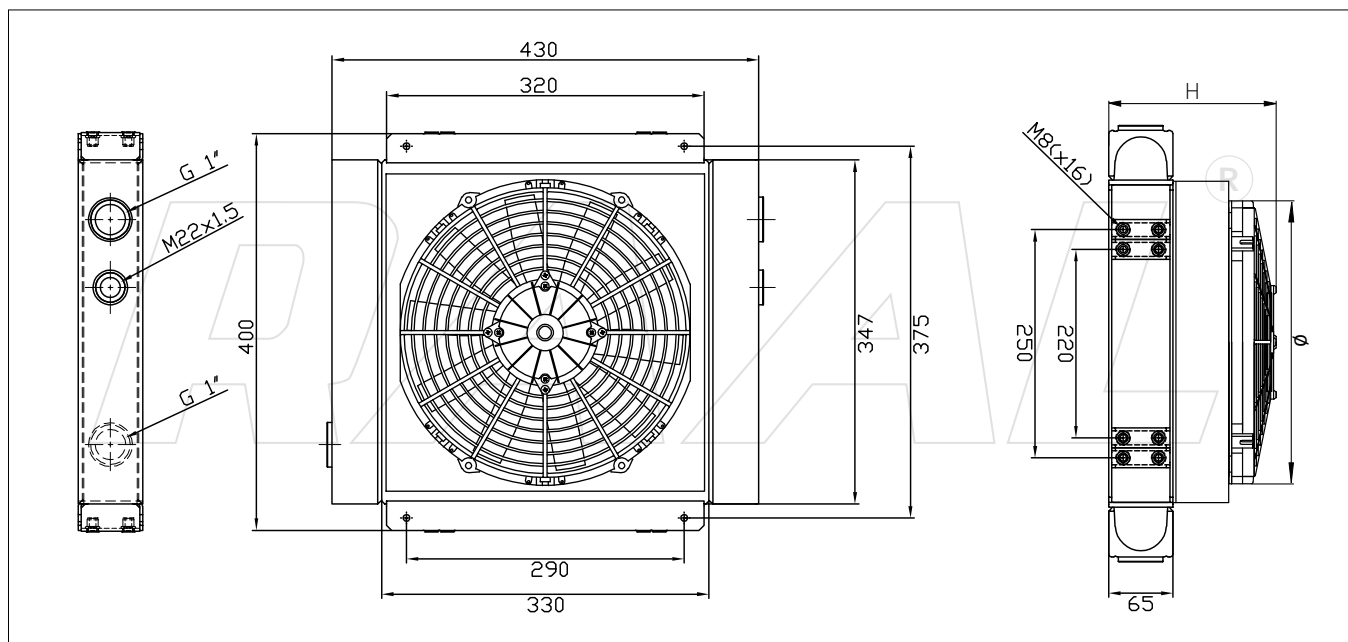
Kw 12 : 20 lt

Kw 20 : 80 lt



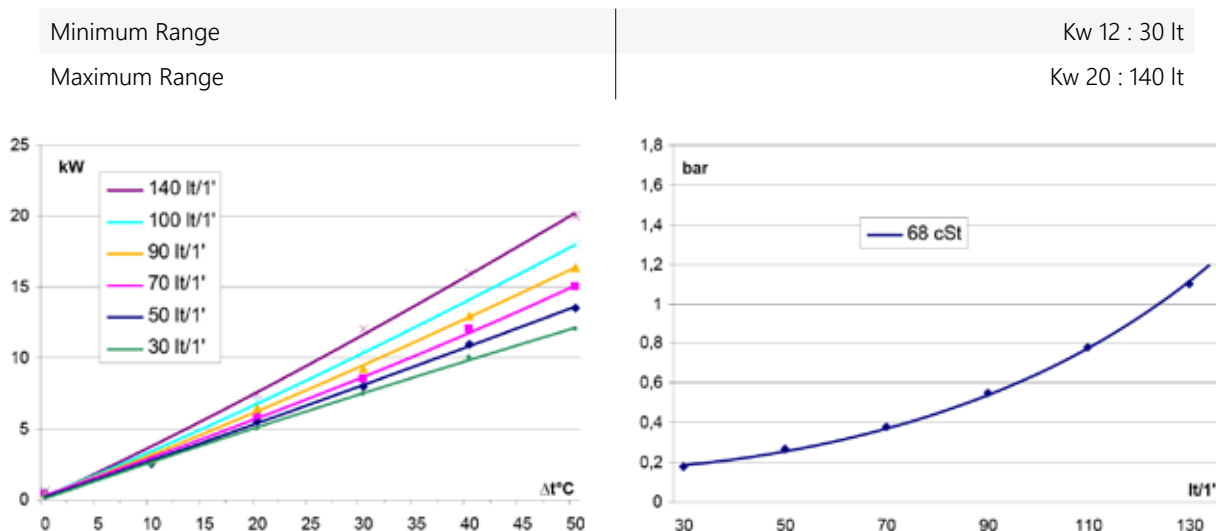
Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRS 150

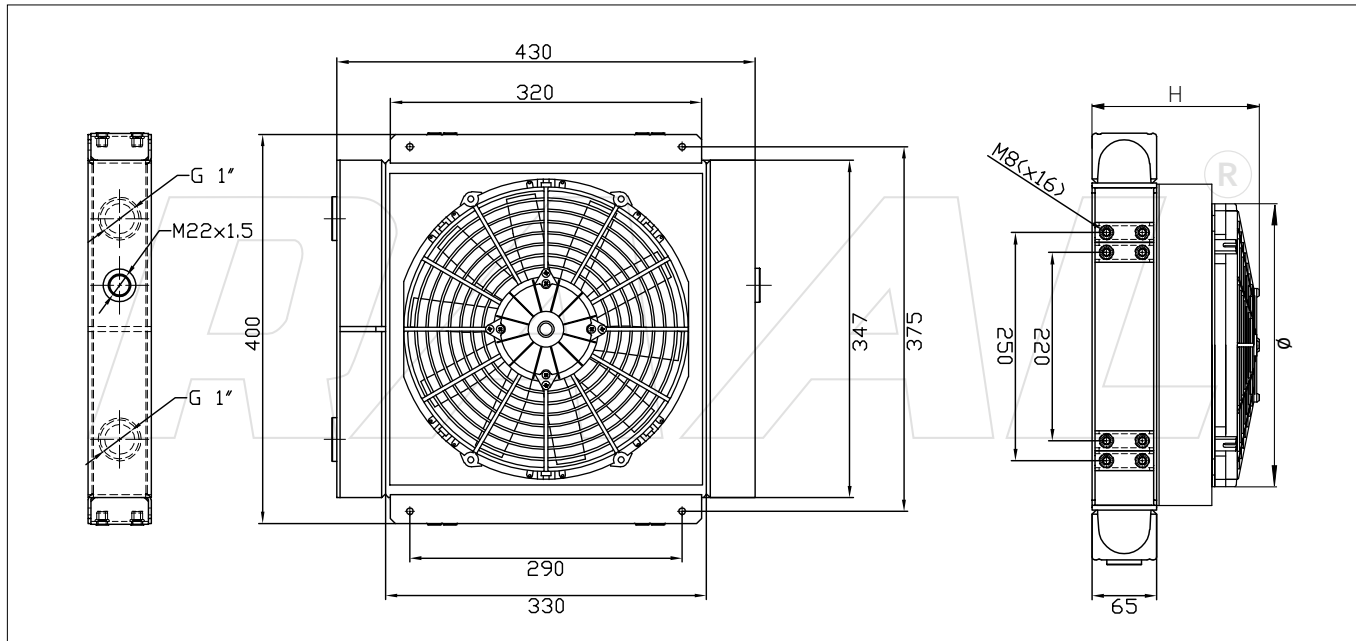


Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RU0100650000	UNCOVERED	65	-	-	7,44	-
RU0100650011	12V Suct.	230	305	1839	7,44	16,5 A
RU0100650012	12V Blow.	230	305	1736	7,44	14,9 A
RU0100650021	24V Suct.	230	305	2161	7,44	10,3 A
RU0100650022	24V Blow.	230	305	2050	7,44	9,1 A
RU0100650031 *	230V-50/60Hz Suct.	195	300	3745	7,44	1,55 A
RU0100650032 *	230V-50/60Hz Blow.	195	300	3745	7,44	1,55 A
RU0100650041	230/400V-50/60Hz 3FN Suct.	195	300	3350	7,44	0,48 A
RU0100650042	230/400V-50/60Hz 3FN Blow.	195	300	3350	7,44	0,48 A
RU0100650051	Pred. Hydraulic. Suct. (Supp. G2)	245	300	3080	7,44	0,41 kW
RU0100650052	Pred. Hydraulic. Blow. (Supp. G2)	245	300	3080	7,44	0,41 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0100660000	UNCOVERED	65	-	-	7,44	-
RU0100660011	12V Suct.	230	305	1839	7,44	16,5 A
RU0100660012	12V Blow.	230	305	1736	7,44	14,9 A
RU0100660021	24V Suct.	230	305	2161	7,44	10,3 A
RU0100660022	24V Blow.	230	305	2050	7,44	9,1 A
RU0100660031 *	230V-50/60Hz Suct.	195	300	3745	7,44	1,55 A
RU0100660032 *	230V-50/60Hz Blow.	195	300	3745	7,44	1,55 A
RU0100660041	230/400V-50/60Hz 3FN Suct.	195	300	3350	7,44	0,48 A
RU0100660042	230/400V-50/60Hz 3FN Blow.	195	300	3350	7,44	0,48 A
RU0100660051	Pred. Hydraulic. Suct. (Supp. G2)	245	300	3080	7,44	0,41 kW
RU0100660052	Pred. Hydraulic. Blow. (Supp. G2)	245	300	3080	7,44	0,41 kW

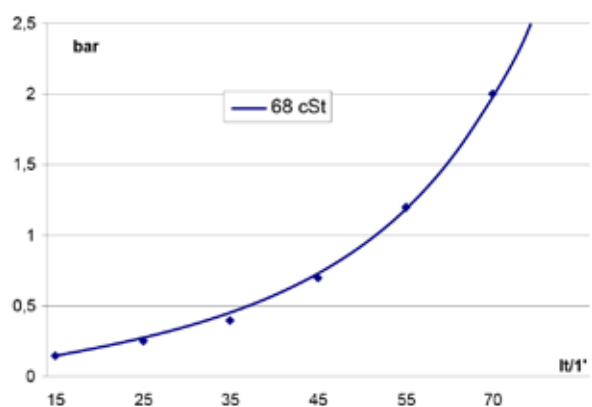
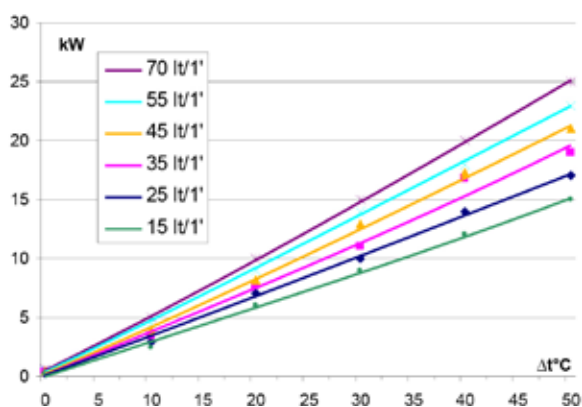
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

Maximum Range

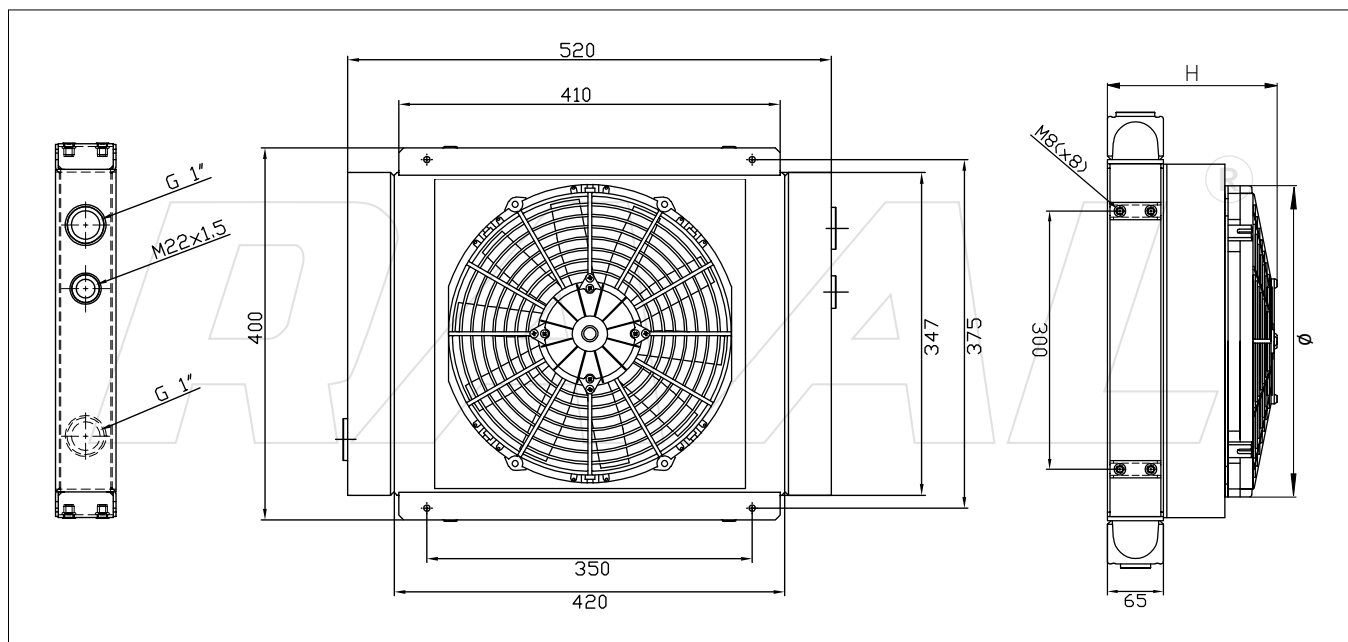
Kw 15 : 15 Lt

Kw 25 : 70 Lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRS 200



Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0100670000	UNCOVERED	65	-	-	9,47	-
RU0100670011	12V Suct.	220	305	1839	9,47	16,5 A
RU0100670012	12V Blow.	220	305	1736	9,47	14,9 A
RU0100670021	24V Suct.	220	305	2161	9,47	10,3 A
RU0100670022	24V Blow.	220	305	2050	9,47	9,1 A
RU0100670031 *	230V-50/60Hz Suct.	180	300	3745	9,47	1,55 A
RU0100670032 *	230V-50/60Hz Blow.	180	300	3745	9,47	1,55 A
RU0100670041	230/400V-50/60Hz 3FN Suct.	180	300	3350	9,47	0,48 A
RU0100670042	230/400V-50/60Hz 3FN Blow.	180	300	3350	9,47	0,48 A
RU0100670051	Pred. Hydraulic. Suct. (Supp. G2)	235	300	3080	9,47	0,41 kW
RU0100670052	Pred. Hydraulic. Blow. (Supp. G2)	235	300	3080	9,47	0,41 kW

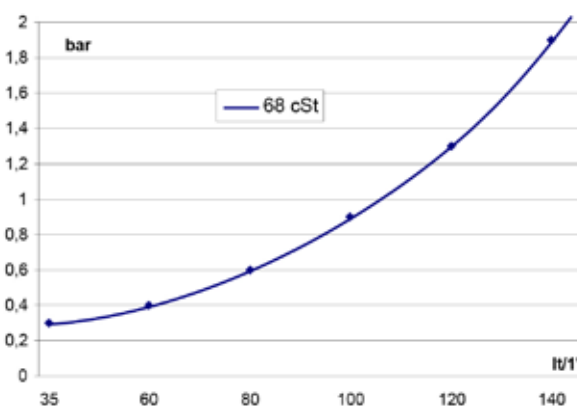
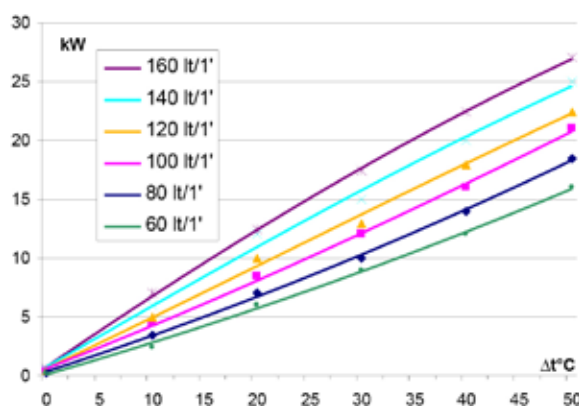
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

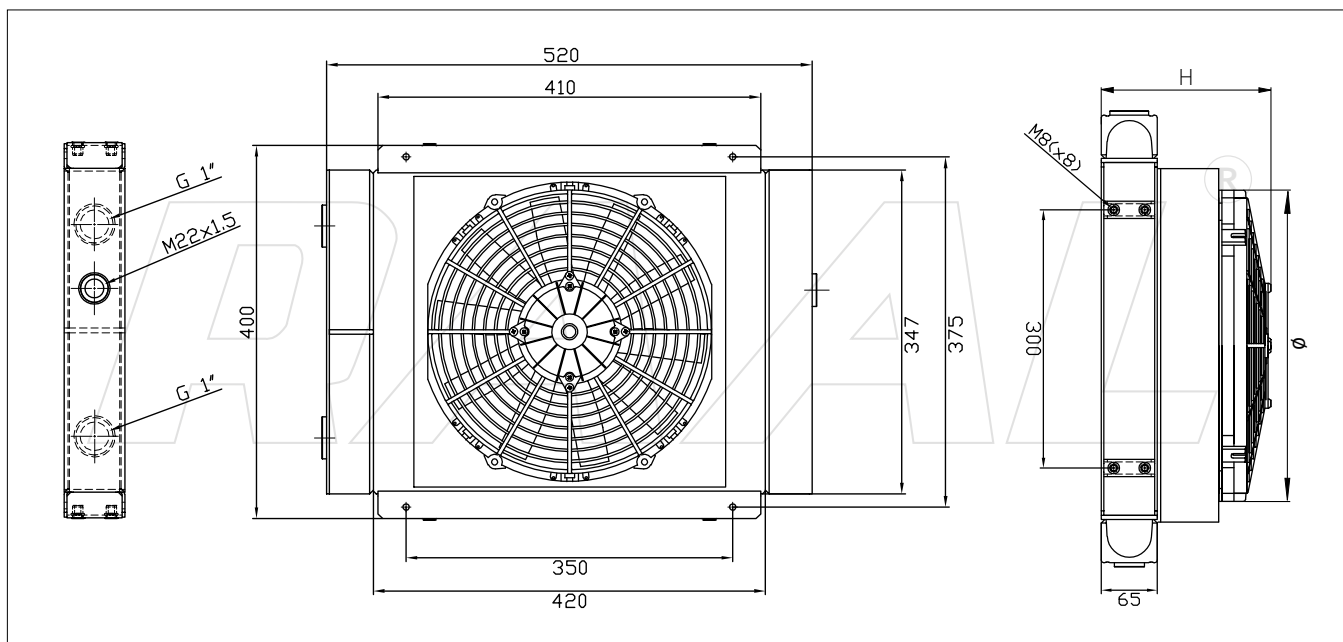
Maximum Range

Kw 16 : 60 lt

Kw 27 : 160 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0100680000	UNCOVERED	65	-	-	9,47	-
RU0100680011	12V Suct.	220	305	1839	9,47	16,5 A
RU0100680012	12V Blow.	220	305	1736	9,47	14,9 A
RU0100680021	24V Suct.	220	305	2161	9,47	10,3 A
RU0100680022	24V Blow.	220	305	2050	9,47	9,1 A
RU0100680031 *	230V-50/60Hz Suct.	180	300	3745	9,47	1,55 A
RU0100680032 *	230V-50/60Hz Blow.	180	300	3745	9,47	1,55 A
RU0100680041	230/400V-50/60Hz 3FN Suct.	180	300	3350	9,47	0,48 A
RU0100680042	230/400V-50/60Hz 3FN Blow.	180	300	3350	9,47	0,48 A
RU0100680051	Pred. Hydraulic. Suct. (Supp. G2)	235	300	3080	9,47	0,41 kW
RU0100680052	Pred. Hydraulic. Blow. (Supp. G2)	235	300	3080	9,47	0,41 kW

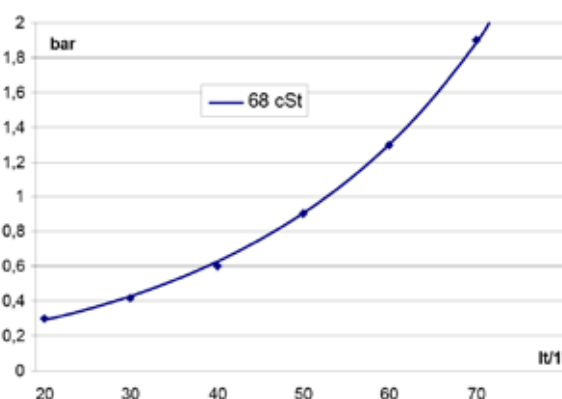
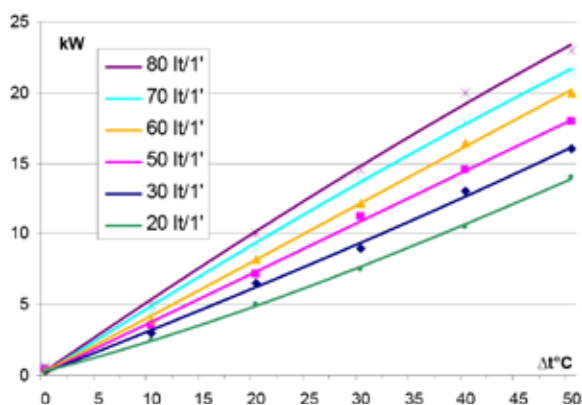
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

Maximum Range

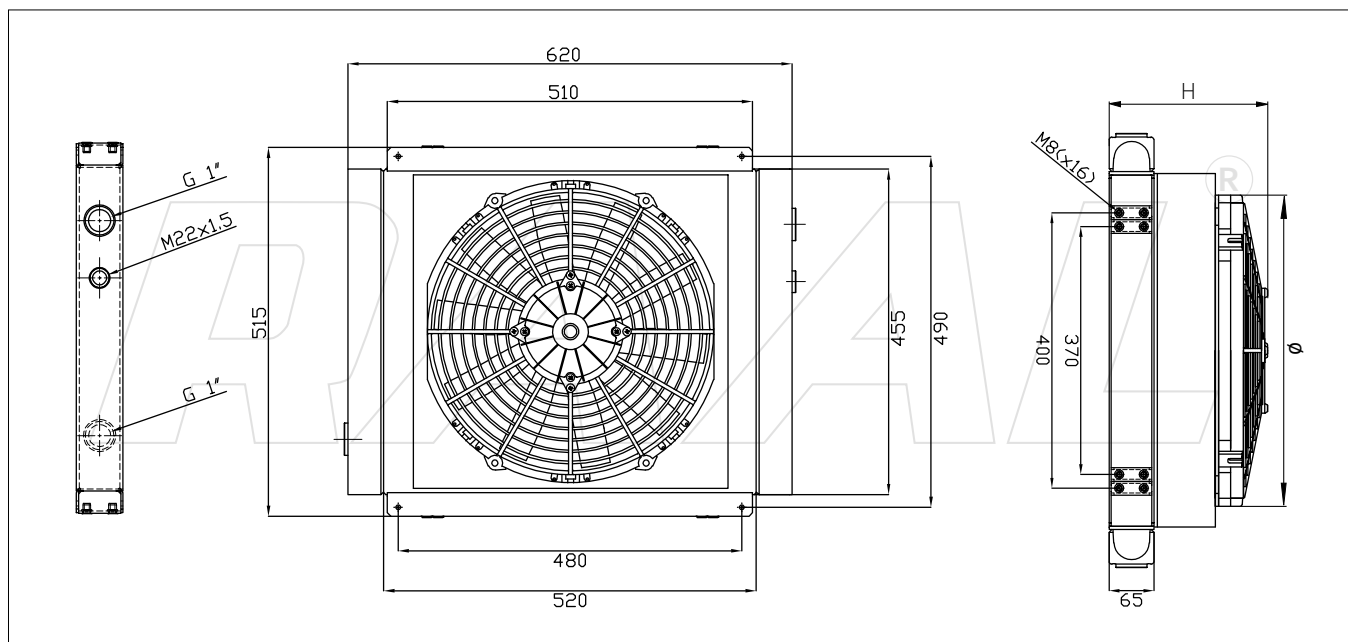
Kw 14 : 20 lt

Kw 23 : 80 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRS 300



Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0100690000	UNCOVERED	65	-	-	15,38	-
RU0100690011	12V Suct.	230	385	2212	15,38	16,0 A
RU0100690012	12V Blow.	230	385	2412	15,38	16,2 A
RU0100690021	24V Suct.	230	385	2577	15,38	9,3 A
RU0100690022	24V Blow.	230	385	2609	15,38	9,0 A
RU0100690031 *	230V-50/60Hz Suct.	230	400	4950	15,38	1,06 A
RU0100690032 *	230V-50/60Hz Blow.	230	400	4950	15,38	1,06 A
RU0100690041	230/400V-50/60Hz 3FN Suct.	230	400	4615	15,38	0,39 A
RU0100690042	230/400V-50/60Hz 3FN Blow.	230	400	4615	15,38	0,39 A
RU0100690051	Pred. Hydraulic. Suct. (Supp. G2)	250	400	7050	15,38	1,5 kW
RU0100690052	Pred. Hydraulic. Blow. (Supp. G2)	250	400	7050	15,38	1,5 kW

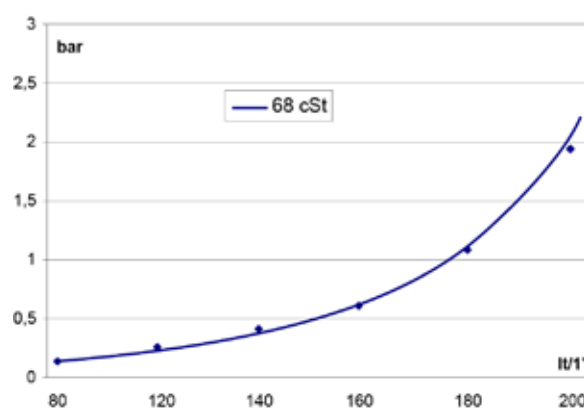
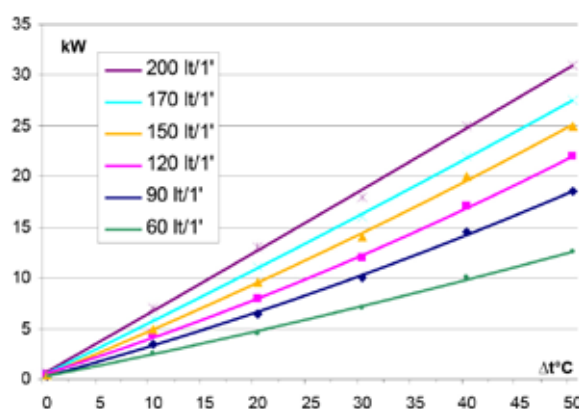
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

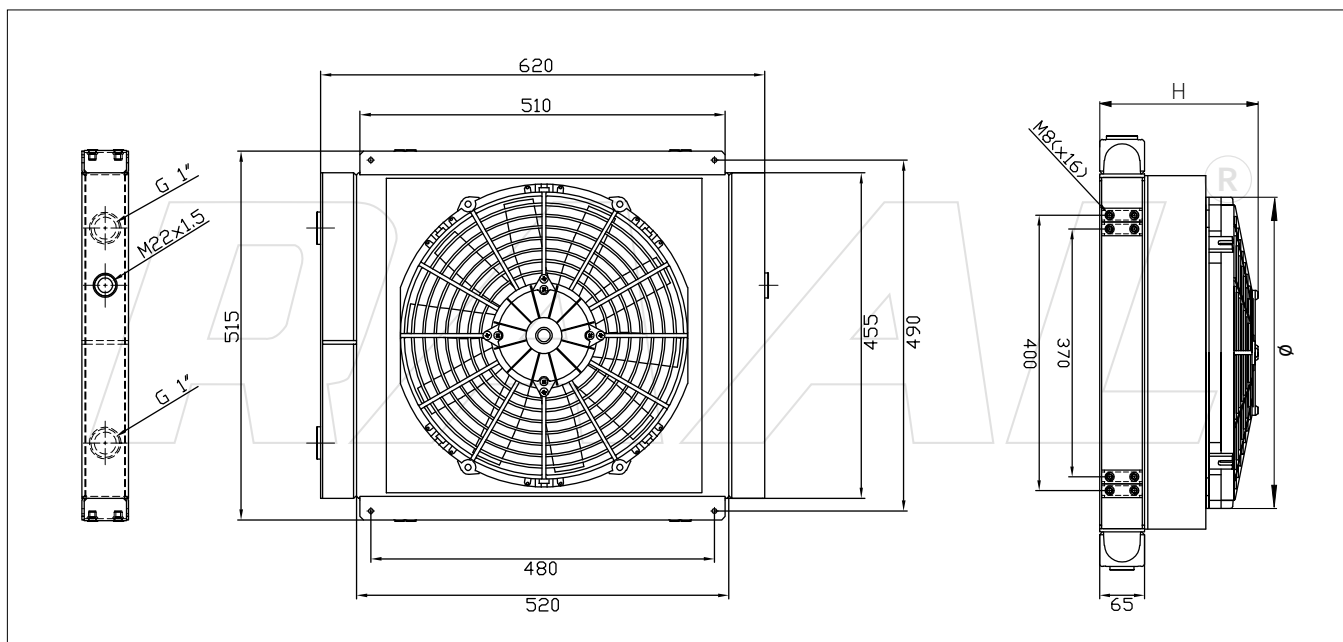
Maximum Range

Kw 12 : 60 lt

Kw 32 : 200 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RU0100700000	UNCOVERED	65	-	-	15,38	-
RU0100700011	12V Suct.	230	385	2212	15,38	16,0 A
RU0100700012	12V Blow.	230	385	2412	15,38	16,2 A
RU0100700021	24V Suct.	230	385	2577	15,38	9,3 A
RU0100700022	24V Blow.	230	385	2609	15,38	9,0 A
RU0100700031 *	230V-50/60Hz Suct.	230	400	4950	15,38	1,06 A
RU0100700032 *	230V-50/60Hz Blow.	230	400	4950	15,38	1,06 A
RU0100700041	230/400V-50/60Hz 3FN Suct.	230	400	4615	15,38	0,39 A
RU0100700042	230/400V-50/60Hz 3FN Blow.	230	400	4615	15,38	0,39 A
RU0100700051	Pred. Hydraulic. Suct. (Supp. G2)	250	400	7050	15,38	1,5 kW
RU0100700052	Pred. Hydraulic. Blow. (Supp. G2)	250	400	7050	15,38	1,5 kW

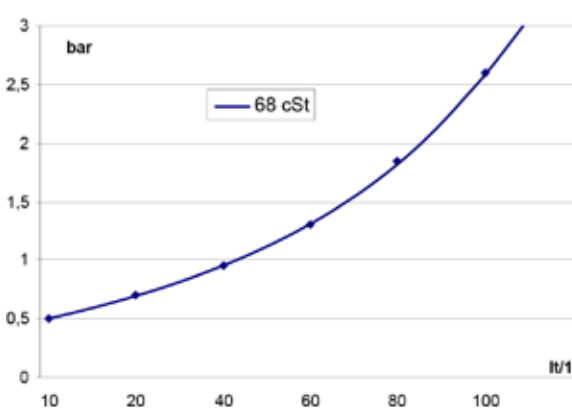
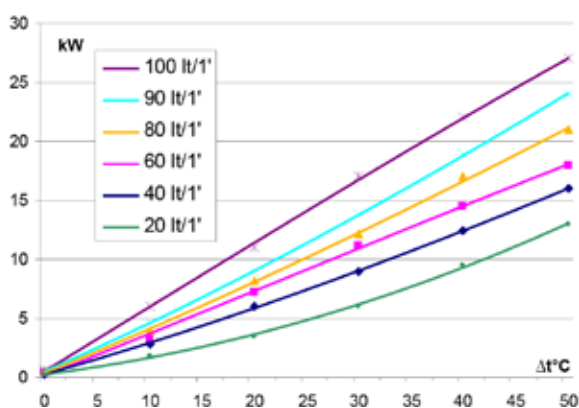
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

Maximum Range

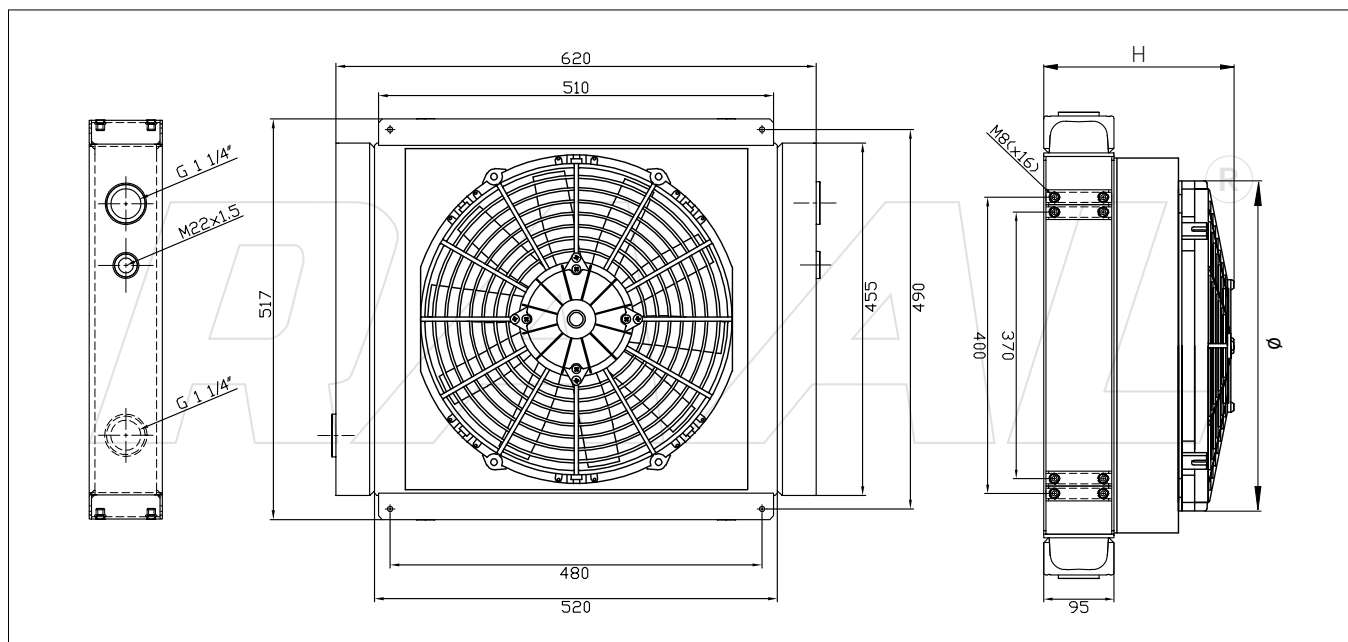
Kw 13 : 20 lt

Kw 27 : 100 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRS 500



Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0100710000	UNCOVERED	95	-	-	22,48	-
RU0100710011	12V Suct.	260	385	2212	22,48	16,0 A
RU0100710012	12V Blow.	260	385	2412	22,48	16,2 A
RU0100710021	24V Suct.	260	385	2577	22,48	9,3 A
RU0100710022	24V Blow.	260	385	2609	22,48	9,0 A
RU0100710031 *	230V-50/60Hz Suct.	260	400	4950	22,48	1,06 A
RU0100710032 *	230V-50/60Hz Blow.	260	400	4950	22,48	1,06 A
RU0100710041	230/400V-50/60Hz 3FN Suct.	260	400	4615	22,48	0,39 A
RU0100710042	230/400V-50/60Hz 3FN Blow.	260	400	4615	22,48	0,39 A
RU0100710051	Pred. Hydraulic. Suct. (Supp. G2)	280	400	7050	22,48	1,5 kW
RU0100710052	Pred. Hydraulic. Blow. (Supp. G2)	280	400	7050	22,48	1,5 kW

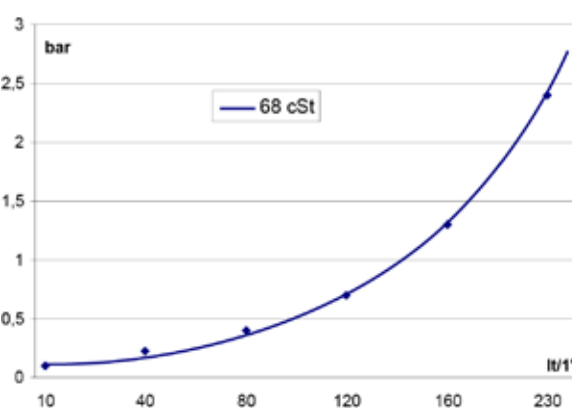
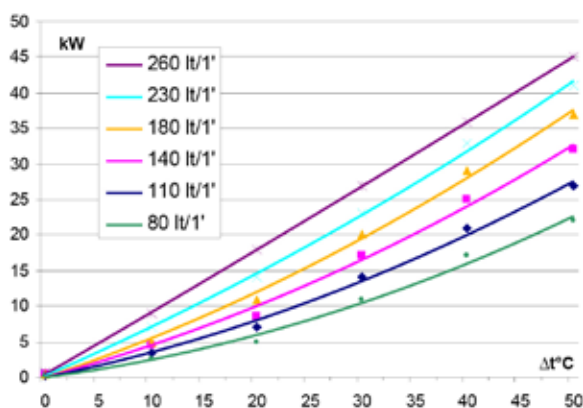
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

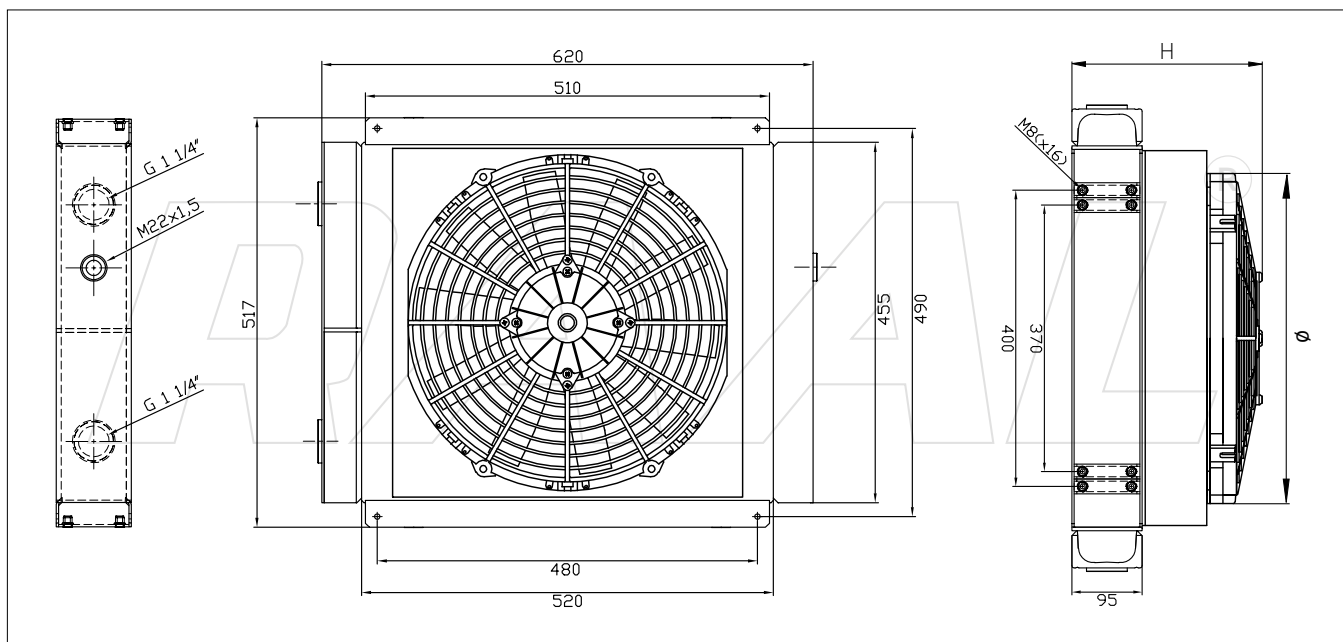
Maximum Range

Kw 22 : 80 lt

Kw 45 : 260 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RU0100720000	UNCOVERED	95	-	-	22,48	-
RU0100720011	12V Suct.	260	385	2212	22,48	16,0 A
RU0100720012	12V Blow.	260	385	2412	22,48	16,2 A
RU0100720021	24V Suct.	260	385	2577	22,48	9,3 A
RU0100720022	24V Blow.	260	385	2609	22,48	9,0 A
RU0100720031 *	230V-50/60Hz Suct.	260	400	4950	22,48	1,06 A
RU0100720032 *	230V-50/60Hz Blow.	260	400	4950	22,48	1,06 A
RU0100720041	230/400V-50/60Hz 3FN Suct.	260	400	4615	22,48	0,39 A
RU0100720042	230/400V-50/60Hz 3FN Blow.	260	400	4615	22,48	0,39 A
RU0100720051	Pred. Hydraulic. Suct. (Supp. G2)	280	400	7050	22,48	1,5 kW
RU0100720052	Pred. Hydraulic. Blow. (Supp. G2)	280	400	7050	22,48	1,5 kW

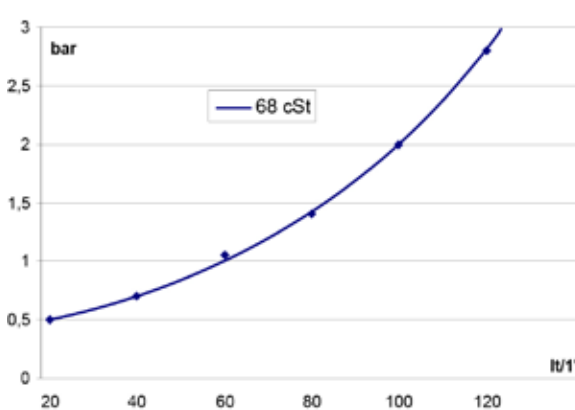
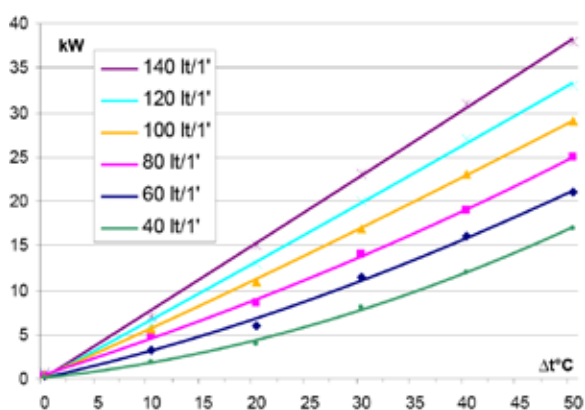
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

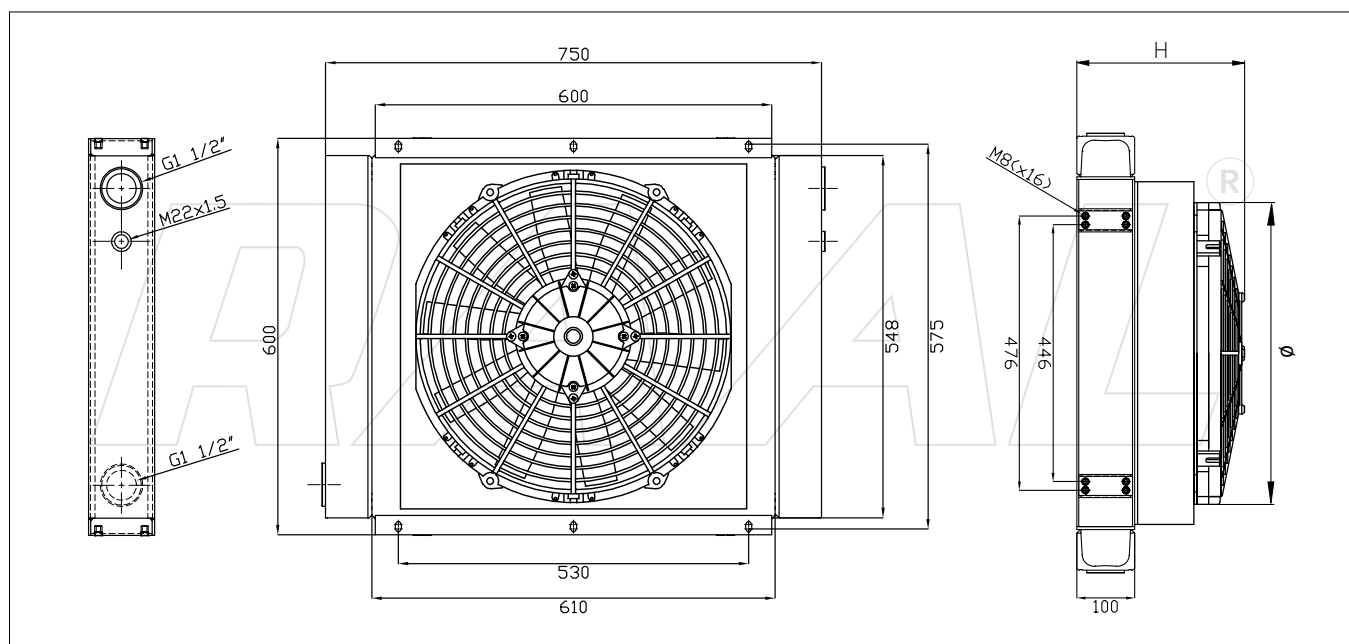
Maximum Range

Kw 17 : 40 lt

Kw 38 : 140 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RU0190280000	UNCOVERED	100	-	-	33,43	-
RU0190280211	12V Suct.	265	2x305	3678	33,43	33,0 A
RU0190280212	12V Blow.	265	2x305	3472	33,43	29,8 A
RU0190280221	24V Suct.	265	2x305	4322	33,43	20,6 A
RU0190280222	24V Blow.	265	2x305	4100	33,43	18,2 A
RU0190280231/32*	230V-50/60Hz Suct./Blow.	225	2x300	7490	33,43	3,1 A
RU0190280031/32*	230V-50/60Hz Suct./Blow.	315	500	9850	33,43	3,88 A
RU0190280041/42	230/400V-50/60Hz 3FN Suct./Blow.	315	500	9195	33,43	1,41 A
RU0190280241/42	230/400V-50/60Hz 3FN Suct./Blow.	225	2x300	6700	33,43	0,96 A
RU0190280051	Pred. Hydraulic. Suct. (Supp. G2)	305	500	13300	33,43	4,11 kW
RU0190280052	Pred. Hydraulic. Blow. (Supp. G2)	305	500	13300	33,43	4,11 kW

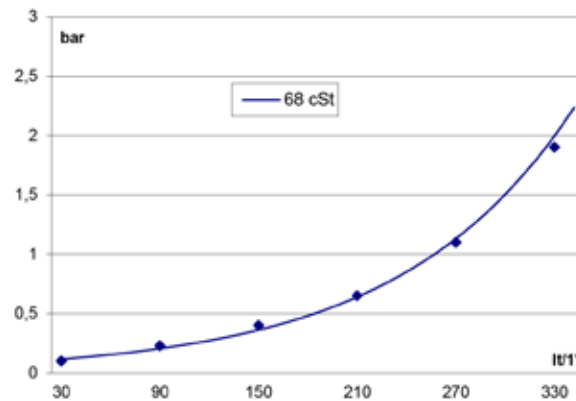
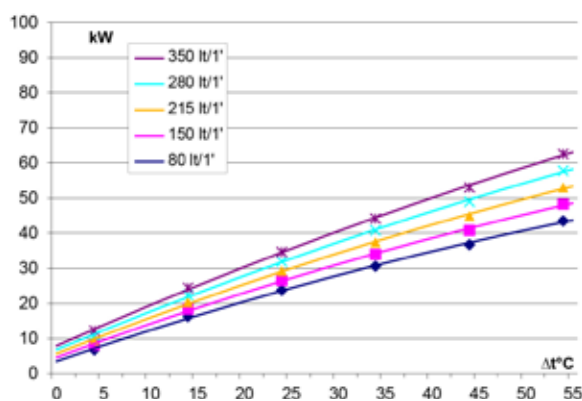
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

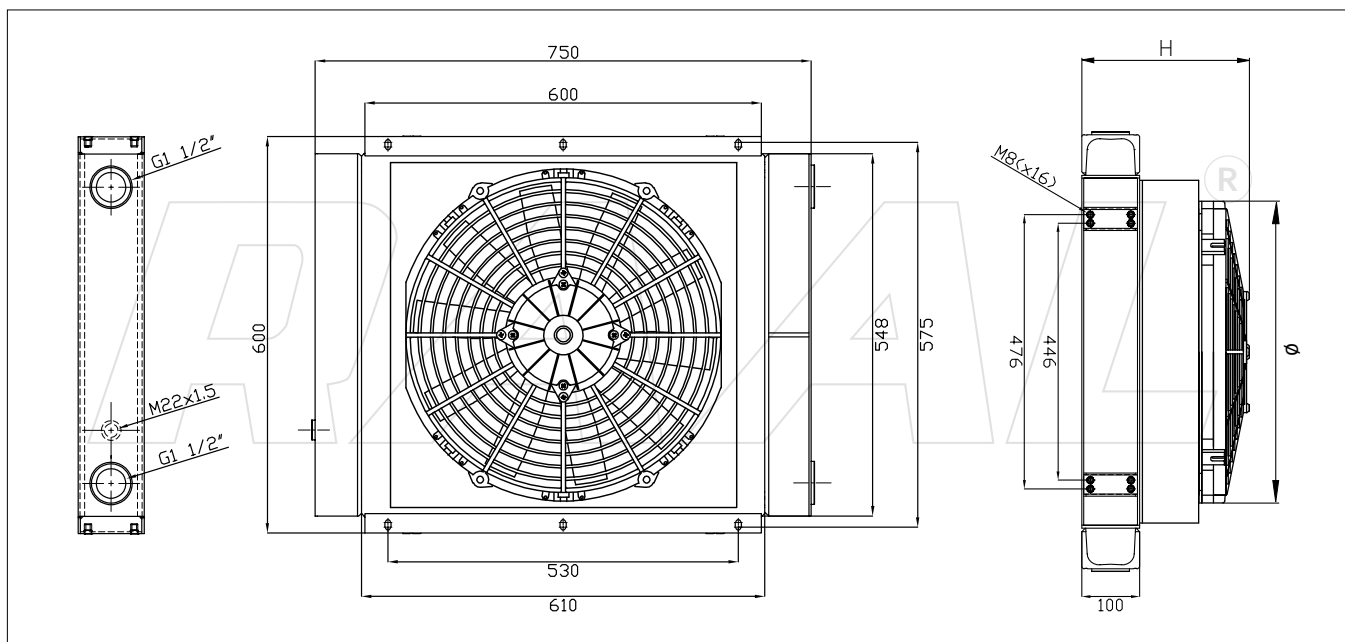
Maximum Range

Kw 42 : 80 lt

Kw 62 : 350 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0286090000	UNCOVERED	100	-	-	33,43	-
RU0286090211	12V Suct.	265	2x305	3678	33,43	33,0 A
RU0286090212	12V Blow.	265	2x305	3472	33,43	29,8 A
RU0286090221	24V Suct.	265	2x305	4322	33,43	20,6 A
RU0286090222	24V Blow.	265	2x305	4100	33,43	18,2 A
RU0286090231/32*	230V-50/60Hz Suct./Blow.	225	2x300	7490	33,43	3,1 A
RU0286090031/32*	230V-50/60Hz Suct./Blow.	315	500	9850	33,43	3,88 A
RU0286090041/42	230/400V-50/60Hz 3FN Suct./Blow.	315	500	9195	33,43	1,41 A
RU0286090241/42	230/400V-50/60Hz 3FN Suct./Blow.	225	2x300	6700	33,43	0,96 A
RU0286090051	Pred. Hydraulic. Suct. (Supp. G2)	305	500	13300	33,43	4,11 kW
RU0286090052	Pred. Hydraulic. Blow. (Supp. G2)	305	500	13300	33,43	4,11 kW

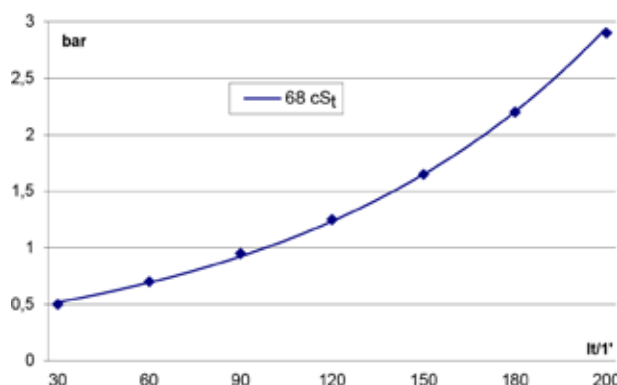
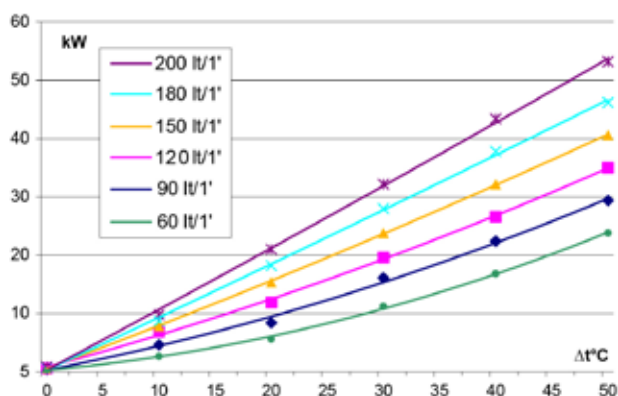
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request

Minimum Range

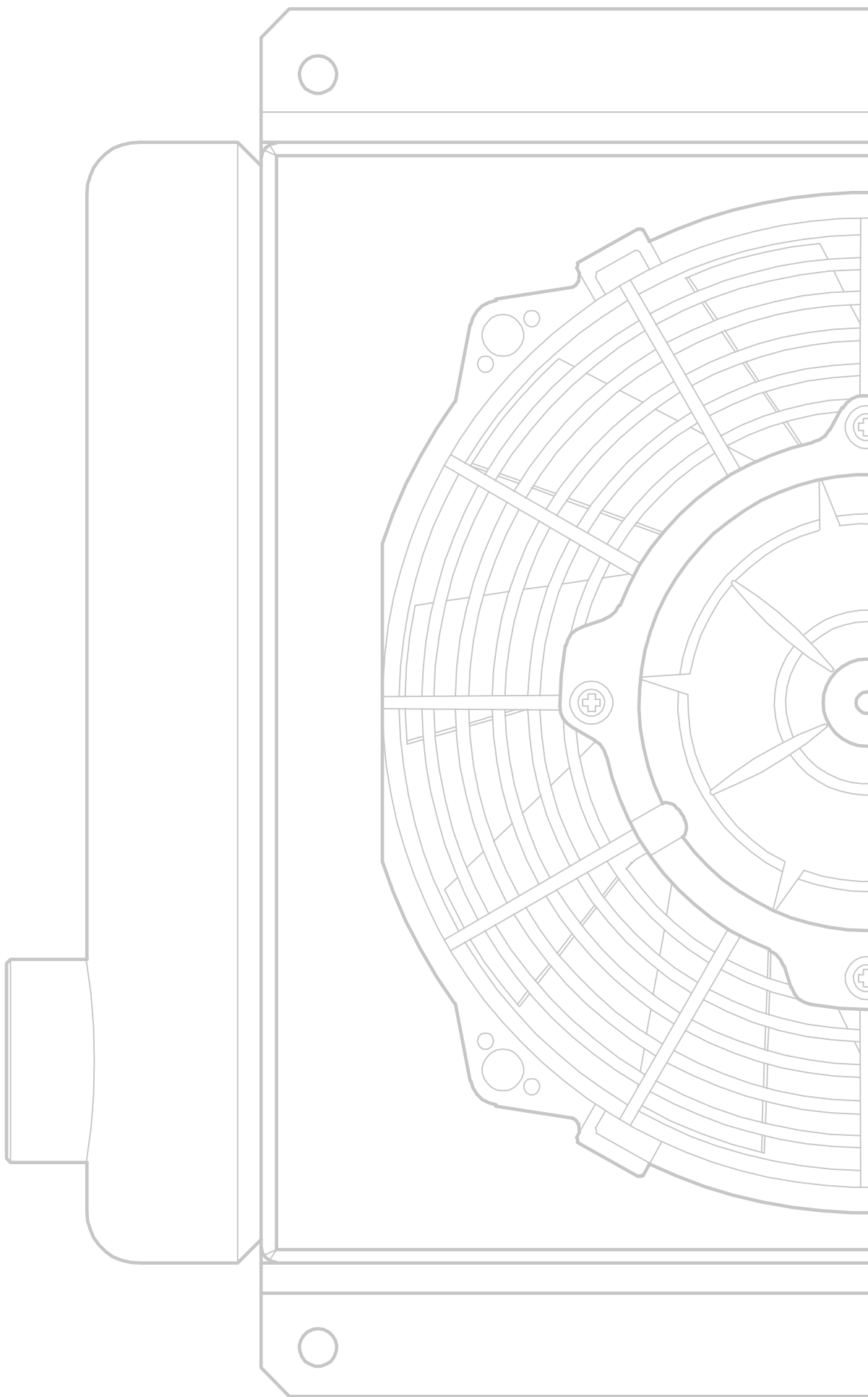
Maximum Range

Kw 36 : 60 lt

Kw 56 : 200 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

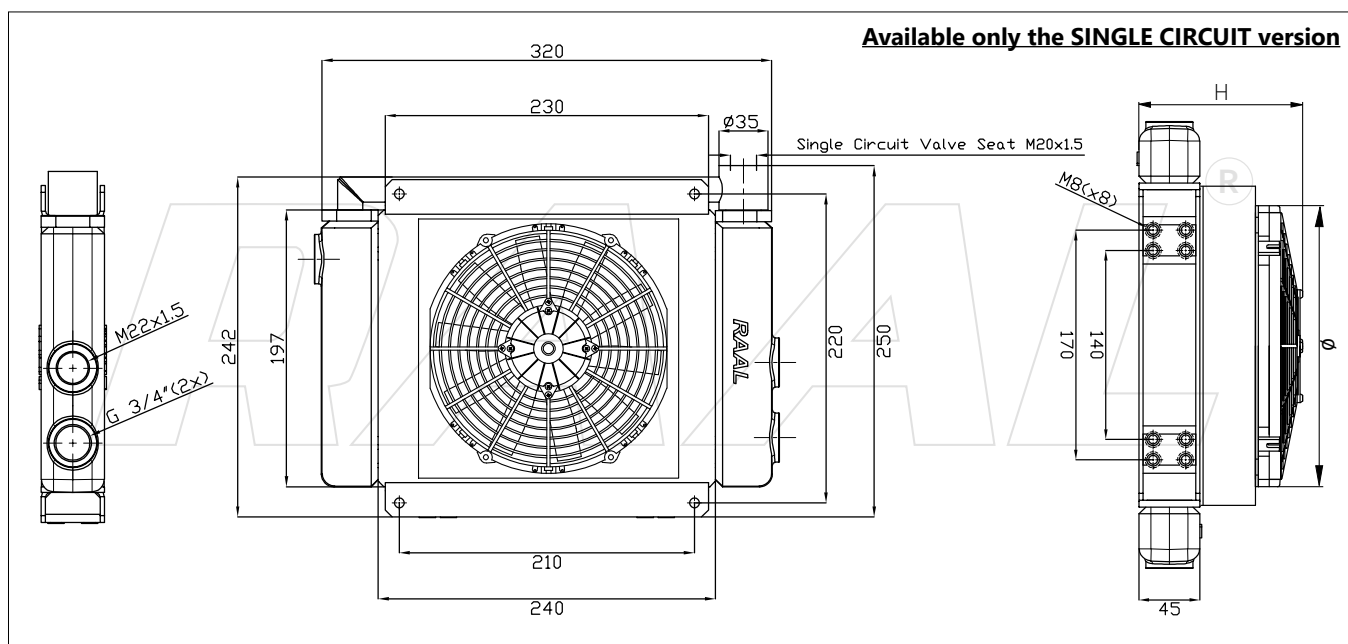


Coolers **BY-PASS Series**



The heat exchangers of the **GR BY-PASS** series are entirely made in aluminum in plate & bar construction system, obtained by the vacuum brazing process. The **BY-PASS** series is designed to be mounted in circuits where there is the possibility that the heat exchanger receives water hammer caused by high pressures. Each article is provided with an installed valve that prevents the damage of the heat exchanger.

BY-PASS GRS 50



Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU02011B000	UNCOVERED	45	-	-	2,13	-
RU02011B011	12V Suct.	140	190	446	2,13	6,4 A
RU02011B012	12V Blow.	140	190	497	2,13	6,4 A
RU02011B021	24V Suct.	140	190	419	2,13	2,8 A
RU02011B022	24V Blow.	140	190	505	2,13	3,3 A
RU02011B031 *	230V-50/60Hz Suct.	135	200	1025	2,13	0,34 A
RU02011B032 *	230V-50/60Hz Blow.	135	200	1025	2,13	0,34 A
RU02011B041	230/400V-50/60Hz 3FN Suct.	135	200	1020	2,13	0,13 A
RU02011B042	230/400V-50/60Hz 3FN Blow.	135	200	1020	2,13	0,13 A
RU02011B051	Pred. Hydraulic. Suct. (Supp. G1)	185	195	958	2,13	0,7 kW
RU02011B052	Pred. Hydraulic. Blow. (Supp. G1)	185	195	958	2,13	0,7 kW

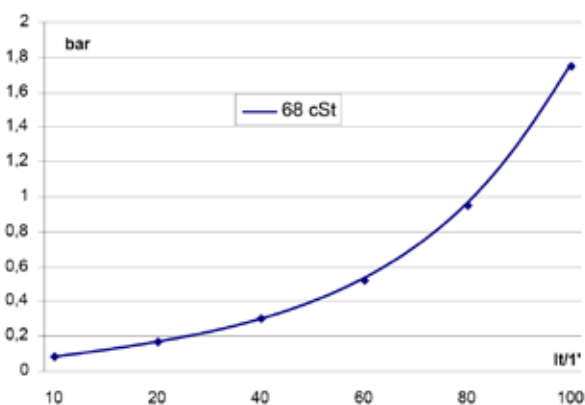
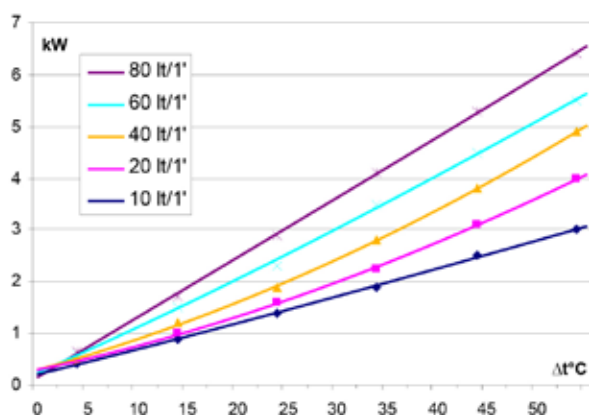
* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request.

Minimum Range

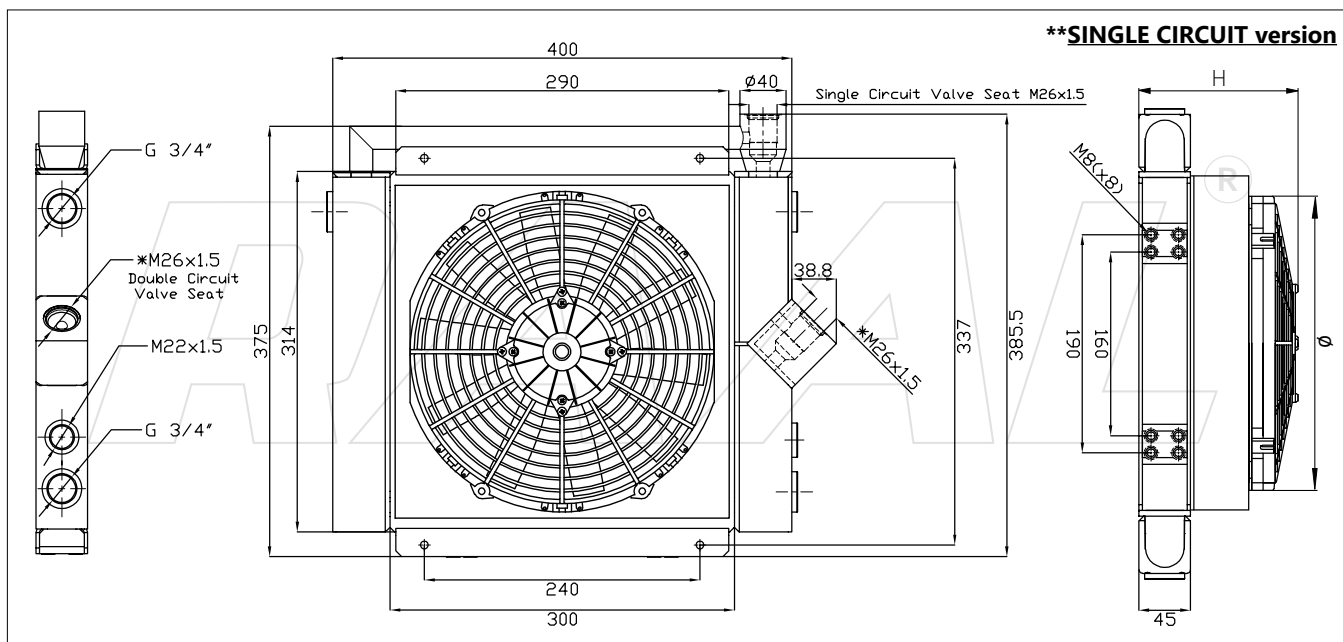
Maximum Range

Kw 3 : 10 lt

Kw 6,5 : 80 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RU020112B000	UNCOVERED	45	-	-	4,24	-
RU020112B011	12V Suct.	210	305	1839	4,24	16,5 A
RU020112B012	12V Blow.	210	305	1736	4,24	14,9 A
RU020112B021	24V Suct.	210	305	2161	4,24	10,3 A
RU020112B022	24V Blow.	210	305	2050	4,24	9,1 A
RU020112B031 *	230V-50/60Hz Suct.	175	300	3745	4,24	1,55 A
RU020112B032 *	230V-50/60Hz Blow.	175	300	3745	4,24	1,55 A
RU020112B041	230/400V-50/60Hz 3FN Suct.	175	300	3350	4,24	0,48 A
RU020112B042	230/400V-50/60Hz 3FN Blow.	175	300	3350	4,24	0,48 A
RU020112B051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	4,24	0,41 kW
RU020112B052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	4,24	0,41 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request.

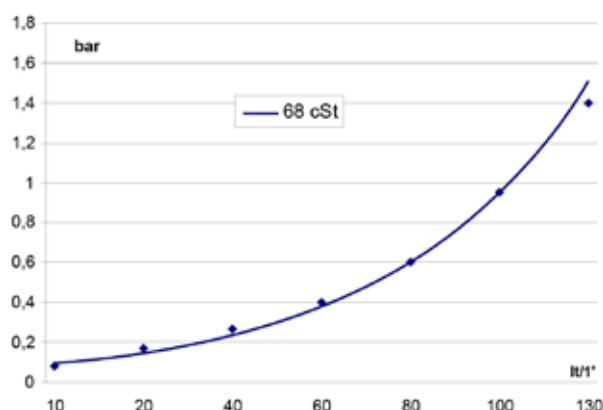
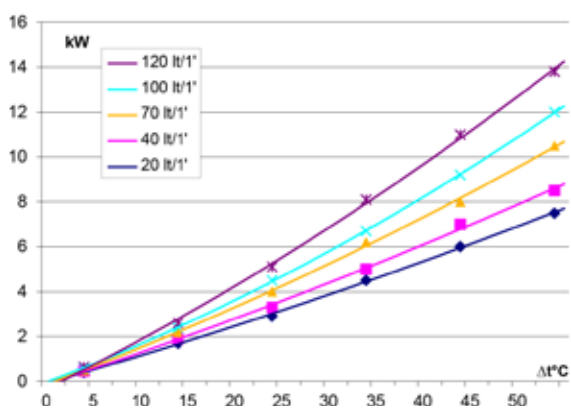
** The cooler is delivered only with SINGLE CIRCUIT configuration. The **DOUBLE CIRCUIT** only at specific request of the customer.

Minimum Range

Maximum Range

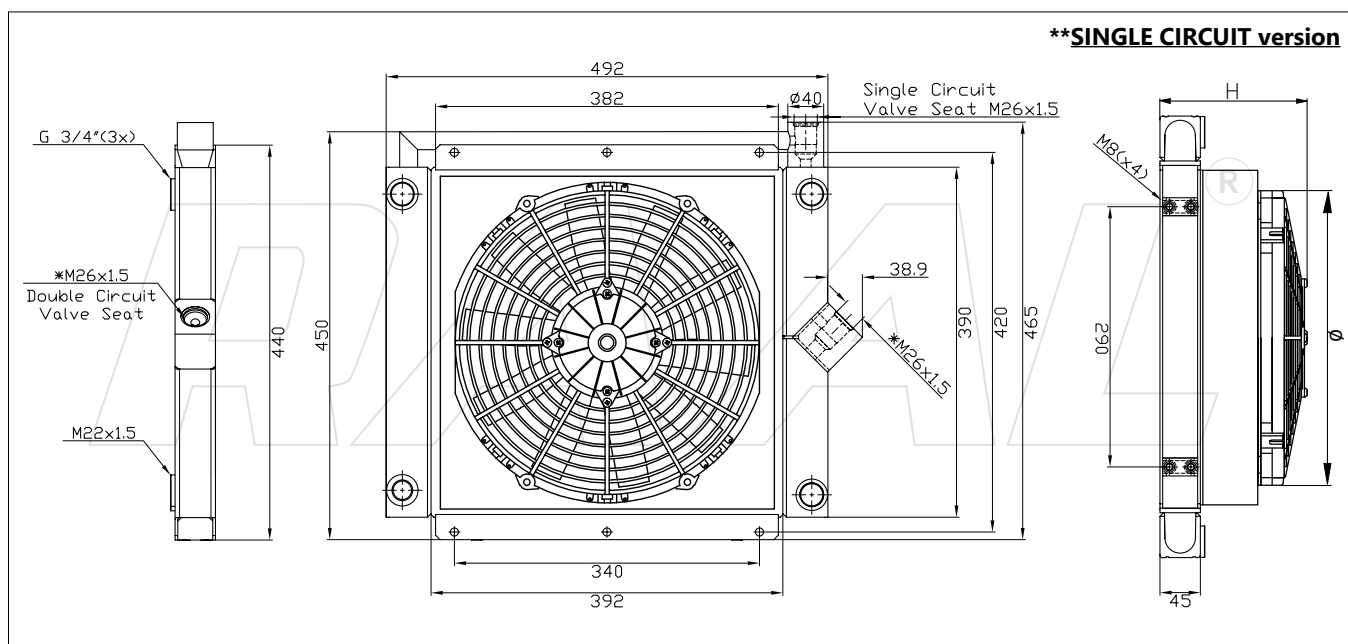
Kw 7,5 : 20 lt

Kw 14 : 120 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

BY-PASS GRS/D 130



Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU034596B000	UNCOVERED	45	-	-	6,90	-
RU034596B011	12V Suct.	210	305	1839	6,90	16,5 A
RU034596B012	12V Blow.	210	305	1736	6,90	14,9 A
RU034596B021	24V Suct.	210	305	2161	6,90	10,3 A
RU034596B022	24V Blow.	210	305	2050	6,90	9,1 A
RU034596B031 *	230V-50/60Hz Suct.	175	300	3745	6,90	1,55 A
RU034596B032 *	230V-50/60Hz Blow.	175	300	3745	6,90	1,55 A
RU034596B041	230/400V-50/60Hz 3FN Suct.	175	300	3350	6,90	0,48 A
RU034596B042	230/400V-50/60Hz 3FN Blow.	175	300	3350	6,90	0,48 A
RU034596B051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	6,90	0,41 kW
RU034596B052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	6,90	0,41 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request.

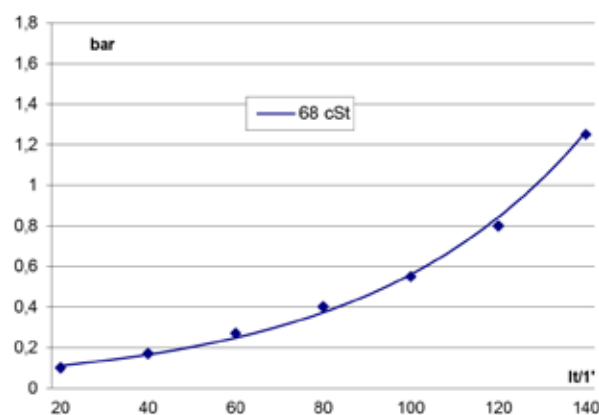
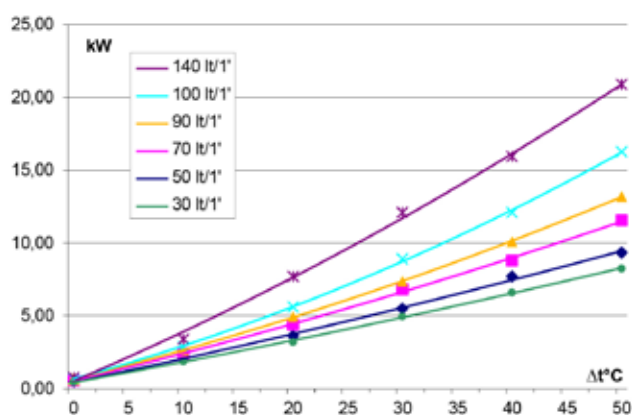
** The cooler is delivered only with SINGLE CIRCUIT configuration. The **DOUBLE CIRCUIT** only at specific request of the customer.

Minimum Range

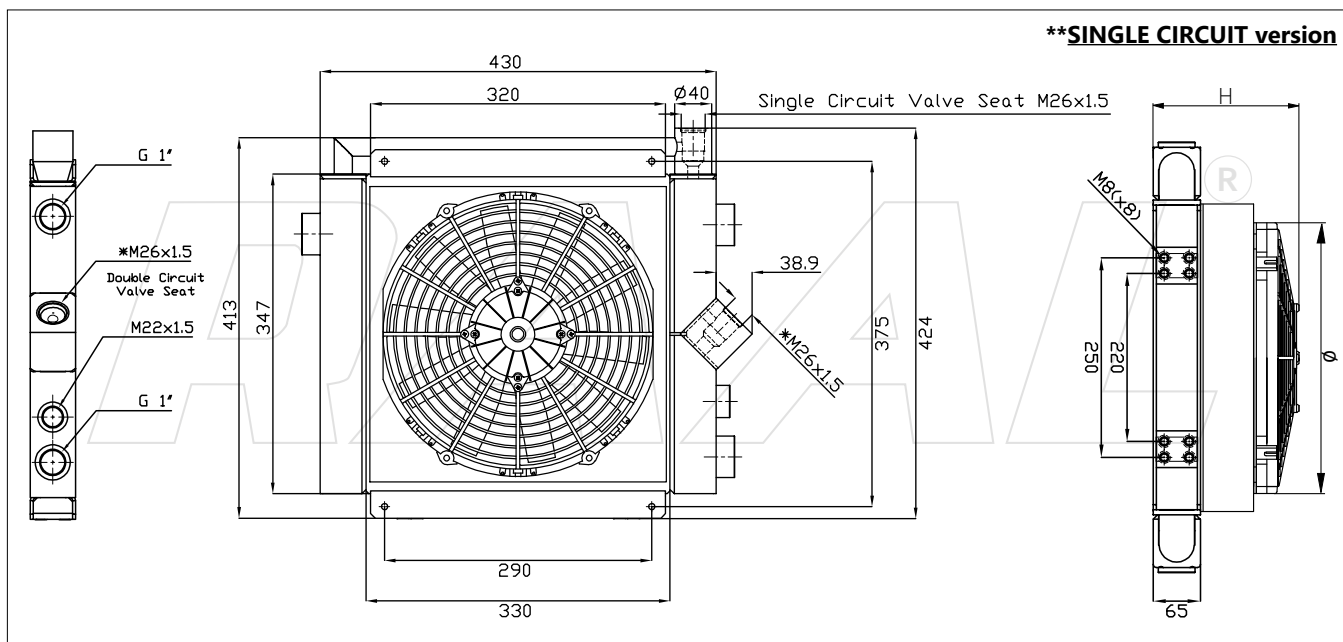
Maximum Range

Kw 8 : 30 lt

Kw 22 : 140 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RU020113B000	UNCOVERED	65	-	-	7,44	-
RU020113B011	12V Suct.	230	305	1839	7,44	16,5 A
RU020113B012	12V Blow.	230	305	1736	7,44	14,9 A
RU020113B021	24V Suct.	230	305	2161	7,44	10,3 A
RU020113B022	24V Blow.	230	305	2050	7,44	9,1 A
RU020113B031 *	230V-50/60Hz Suct.	195	300	3745	7,44	1,55 A
RU020113B032 *	230V-50/60Hz Blow.	195	300	3745	7,44	1,55 A
RU020113B041	230/400V-50/60Hz 3FN Suct.	195	300	3350	7,44	0,48 A
RU020113B042	230/400V-50/60Hz 3FN Blow.	195	300	3350	7,44	0,48 A
RU020113B051	Pred. Hydraulic. Suct. (Supp. G2)	245	300	3080	7,44	0,41 kW
RU020113B052	Pred. Hydraulic. Blow. (Supp. G2)	245	300	3080	7,44	0,41 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request.

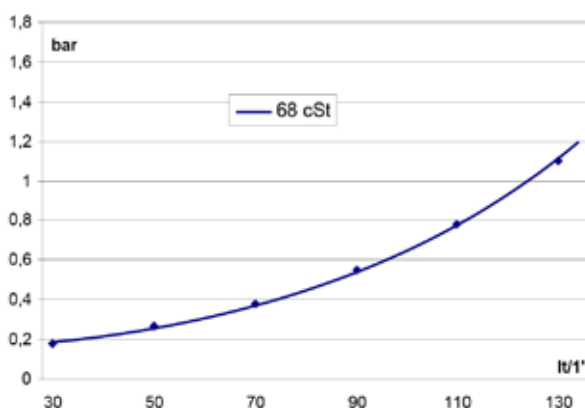
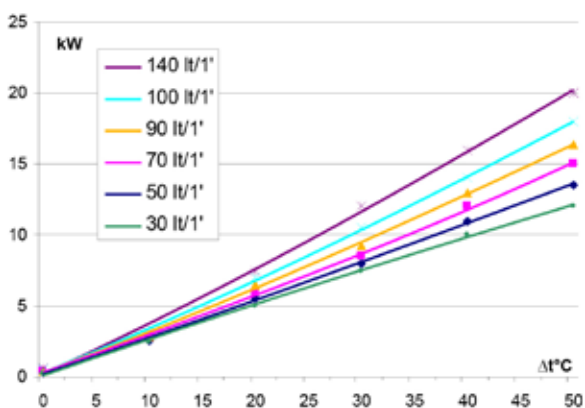
** The cooler is delivered only with SINGLE CIRCUIT configuration. The **DOUBLE CIRCUIT** only at specific request of the customer.

Minimum Range

Maximum Range

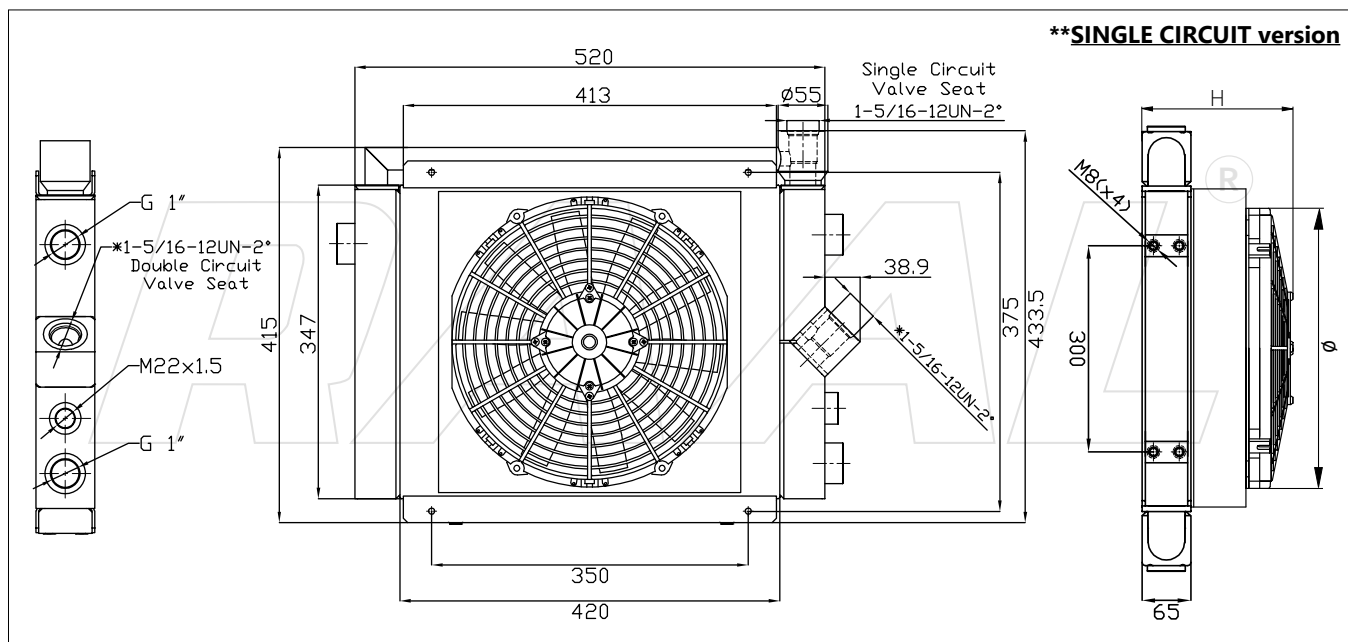
Kw 12 : 30 lt

Kw 20 : 140 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

BY-PASS GRS/D 200



Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU019458B000	UNCOVERED	65	-	-	9,47	-
RU019458B011	12V Suct.	220	305	1839	9,47	16,5 A
RU019458B012	12V Blow.	220	305	1736	9,47	14,9 A
RU019458B021	24V Suct.	220	305	2161	9,47	10,3 A
RU019458B022	24V Blow.	220	305	2050	9,47	9,1 A
RU019458B031 *	230V-50/60Hz Suct.	180	300	3745	9,47	1,55 A
RU019458B032 *	230V-50/60Hz Blow.	180	300	3745	9,47	1,55 A
RU019458B041	230/400V-50/60Hz 3FN Suct.	180	300	3350	9,47	0,48 A
RU019458B042	230/400V-50/60Hz 3FN Blow.	180	300	3350	9,47	0,48 A
RU019458B051	Pred. Hydraulic. Suct. (Supp. G2)	235	300	3080	9,47	0,41 kW
RU019458B052	Pred. Hydraulic. Blow. (Supp. G2)	235	300	3080	9,47	0,41 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request.

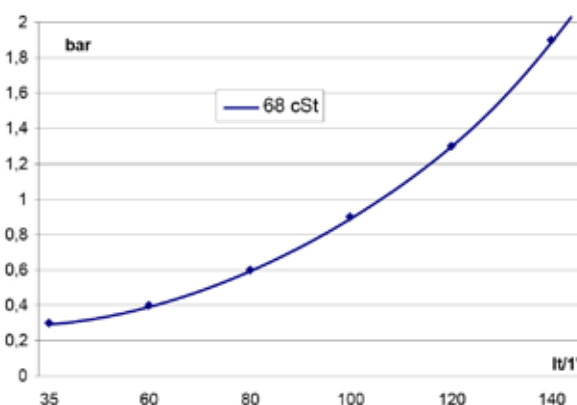
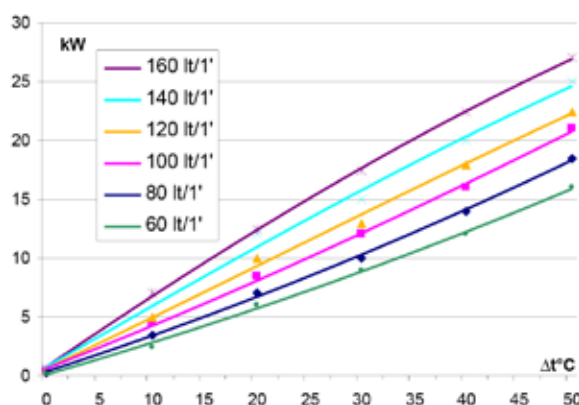
** The cooler is delivered only with SINGLE CIRCUIT configuration. The **DOUBLE CIRCUIT** only at specific request of the customer.

Minimum Range

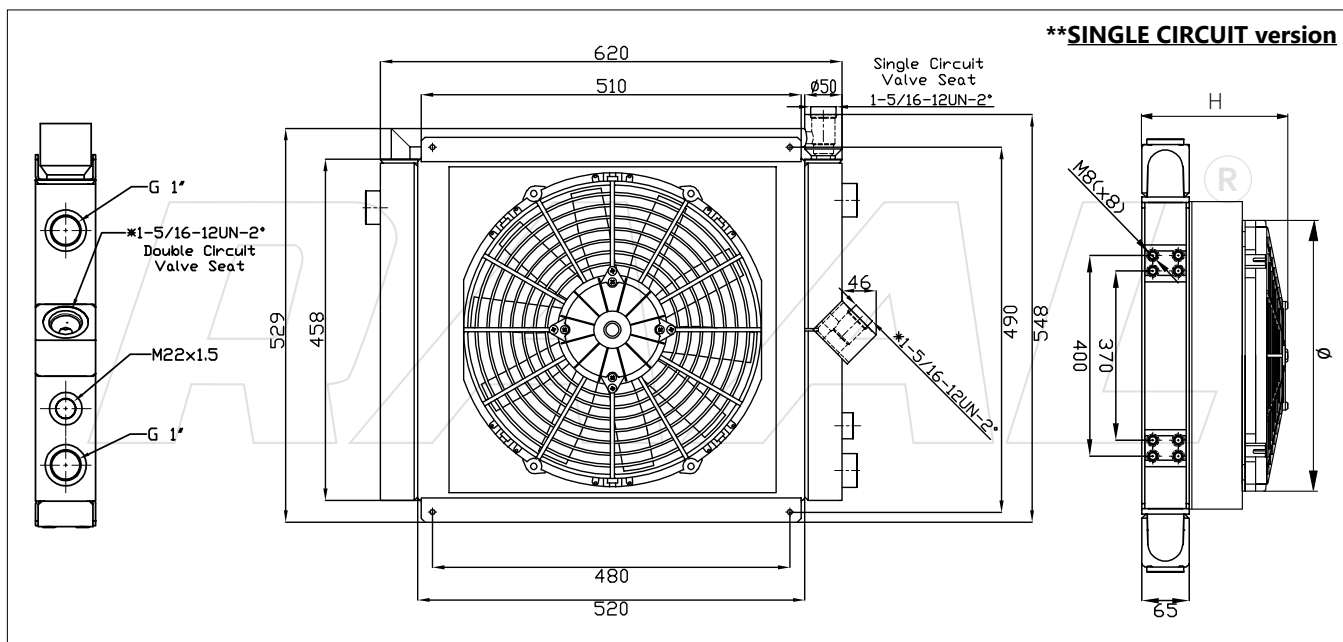
Maximum Range

Kw 16 : 60 lt

Kw 27 : 160 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU020114B000	UNCOVERED	65	-	-	15,38	-
RU020114B011	12V Suct.	230	385	2212	15,38	16,0 A
RU020114B012	12V Blow.	230	385	2412	15,38	16,2 A
RU020114B021	24V Suct.	230	385	2577	15,38	9,3 A
RU020114B022	24V Blow.	230	385	2609	15,38	9,0 A
RU020114B031 *	230V-50/60Hz Suct.	230	400	4950	15,38	1,06 A
RU020114B032 *	230V-50/60Hz Blow.	230	400	4950	15,38	1,06 A
RU020114B041	230/400V-50/60Hz 3FN Suct.	230	400	4615	15,38	0,39 A
RU020114B042	230/400V-50/60Hz 3FN Blow.	230	400	4615	15,38	0,39 A
RU020114B051	Pred. Hydraulic. Suct. (Supp. G2)	250	400	7050	15,38	1,5 kW
RU020114B052	Pred. Hydraulic. Blow. (Supp. G2)	250	400	7050	15,38	1,5 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request.

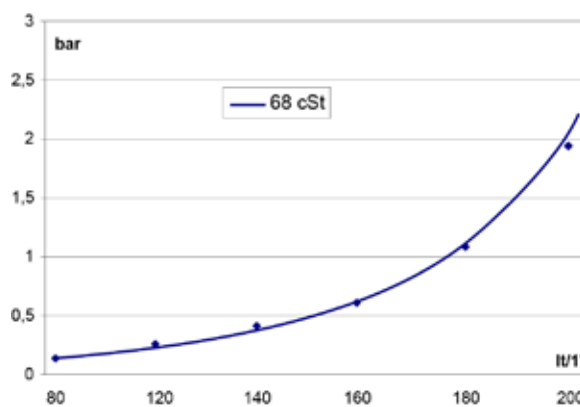
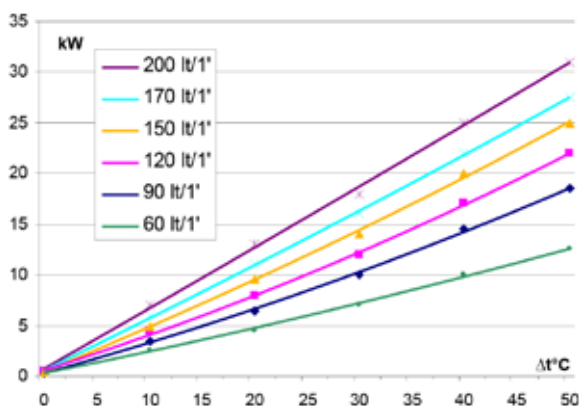
** The cooler is delivered only with SINGLE CIRCUIT configuration. The **DOUBLE CIRCUIT** only at specific request of the customer.

Minimum Range

Maximum Range

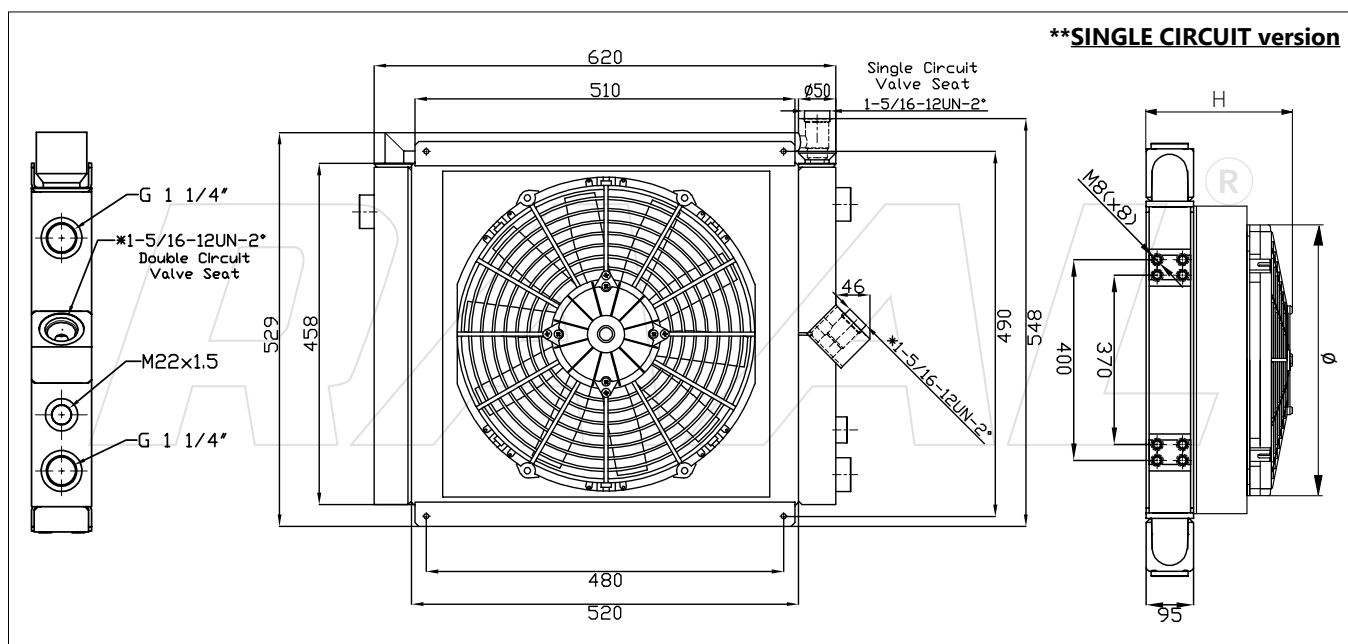
Kw 13 : 60 lt

Kw 31 : 200 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

BY-PASS GRS/D 500



Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU021919B000	UNCOVERED	95	-	-	22,48	-
RU021919B011	12V Suct.	260	385	2212	22,48	16,0 A
RU021919B012	12V Blow.	260	385	2412	22,48	16,2 A
RU021919B021	24V Suct.	260	385	2577	22,48	9,3 A
RU021919B022	24V Blow.	260	385	2609	22,48	9,0 A
RU021919B031 *	230V-50/60Hz Suct.	260	400	4950	22,48	1,06 A
RU021919B032 *	230V-50/60Hz Blow.	260	400	4950	22,48	1,06 A
RU021919B041	230/400V-50/60Hz 3FN Suct.	260	400	4615	22,48	0,39 A
RU021919B042	230/400V-50/60Hz 3FN Blow.	260	400	4615	22,48	0,39 A
RU021919B051	Pred. Hydraulic. Suct. (Supp. G2)	280	400	7050	22,48	1,5 kW
RU021919B052	Pred. Hydraulic. Blow. (Supp. G2)	280	400	7050	22,48	1,5 kW

* In SINGLE PHASE models (*31/*32), ADJUSTABLE THERMOSTAT 0-90° on request.

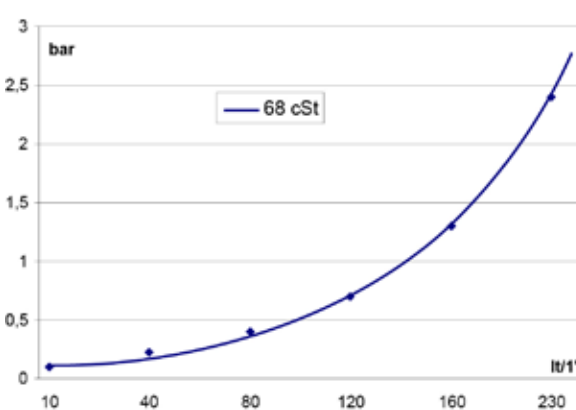
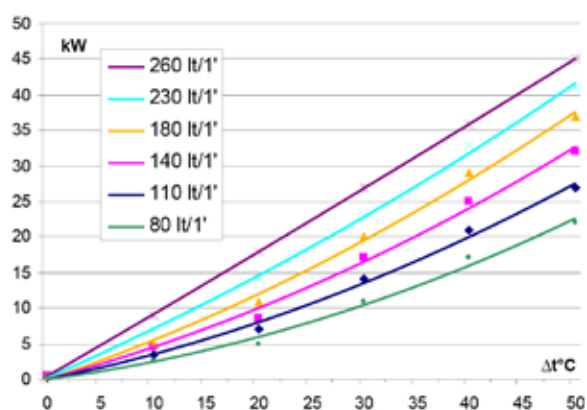
** The cooler is delivered only with SINGLE CIRCUIT configuration. The **DOUBLE CIRCUIT** only at specific request of the customer.

Minimum Range

Maximum Range

Kw 22 : 80 lt

Kw 45 : 260 lt

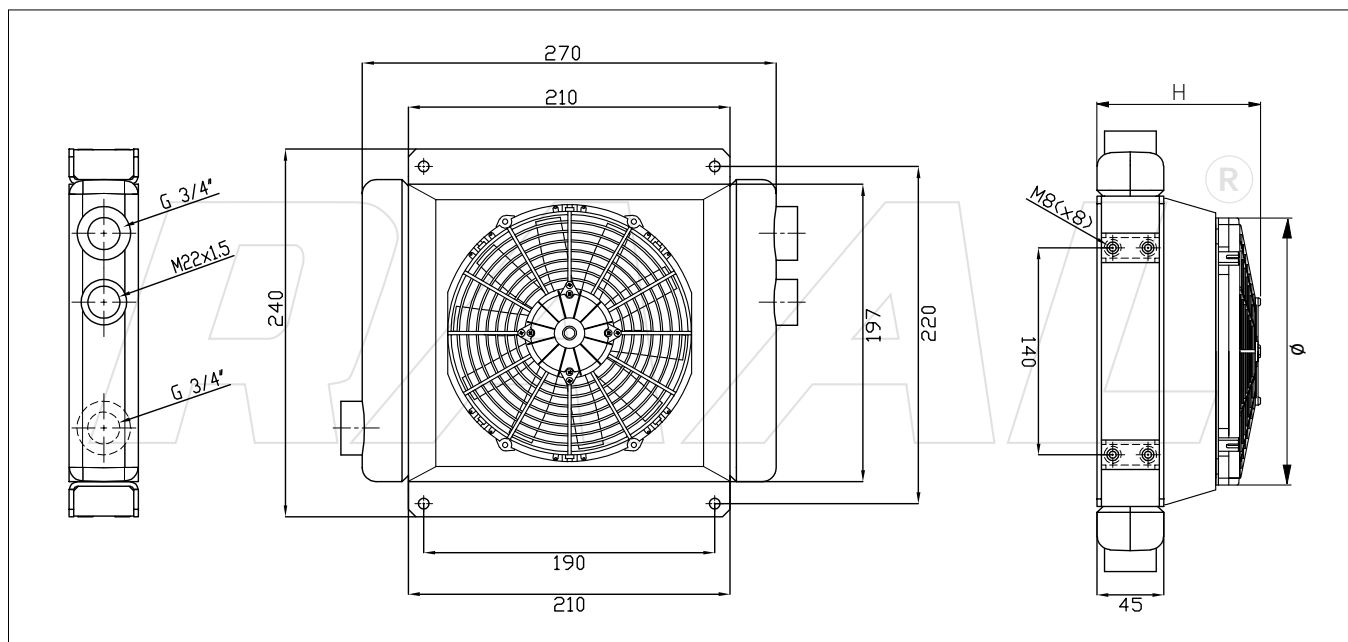


Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

Coolers VT Series



The heat exchangers of the **VT** series are entirely made in aluminum in plate & bar construction system obtained by the vacuum brazing process and designed to withstand high temperatures and for any type of hydraulic system. The **VT** series is the only series which have molded tanks, in order to have a product with no aesthetically imperfections. All **VT** models are available in single and dual circuit.



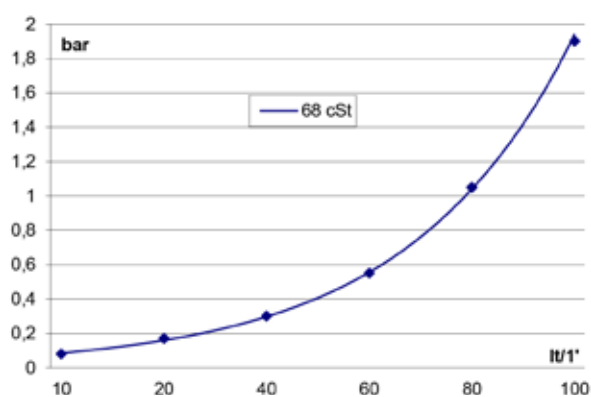
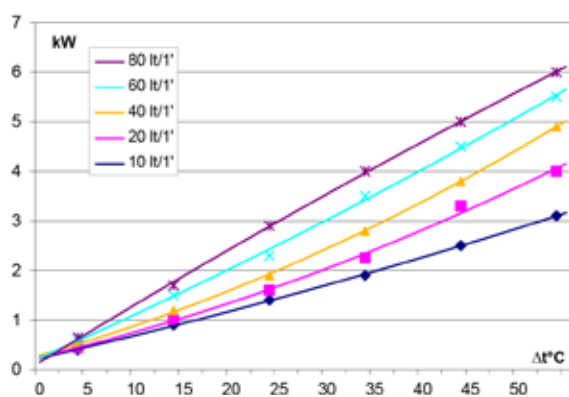
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RUV100610000	UNCOVERED	45	-	-	1,91	-
RUV100610011	12V Suct.	140	190	446	1,91	6,4 A
RUV100610012	12V Blow.	140	190	497	1,91	6,4 A
RUV100610021	24V Suct.	140	190	419	1,91	2,8 A
RUV100610022	24V Blow.	140	190	505	1,91	3,3 A
RUV100610031	230V-50/60Hz Suct.	135	200	1025	1,91	0,34 A
RUV100610032	230V-50/60Hz Blow.	135	200	1025	1,91	0,13 A
RUV100610041	230/400V-50/60Hz 3FN Suct.	135	200	1020	1,91	0,13 A
RUV100610042	230/400V-50/60Hz 3FN Blow.	135	200	1020	1,91	0,30 A
RUV100610051	Pred. Hydraulic. Suct. (Supp. G1)	185	195	958	1,91	0,7 kW
RUV100610052	Pred. Hydraulic. Blow. (Supp. G1)	185	195	958	1,91	0,7 kW

Minimum Range

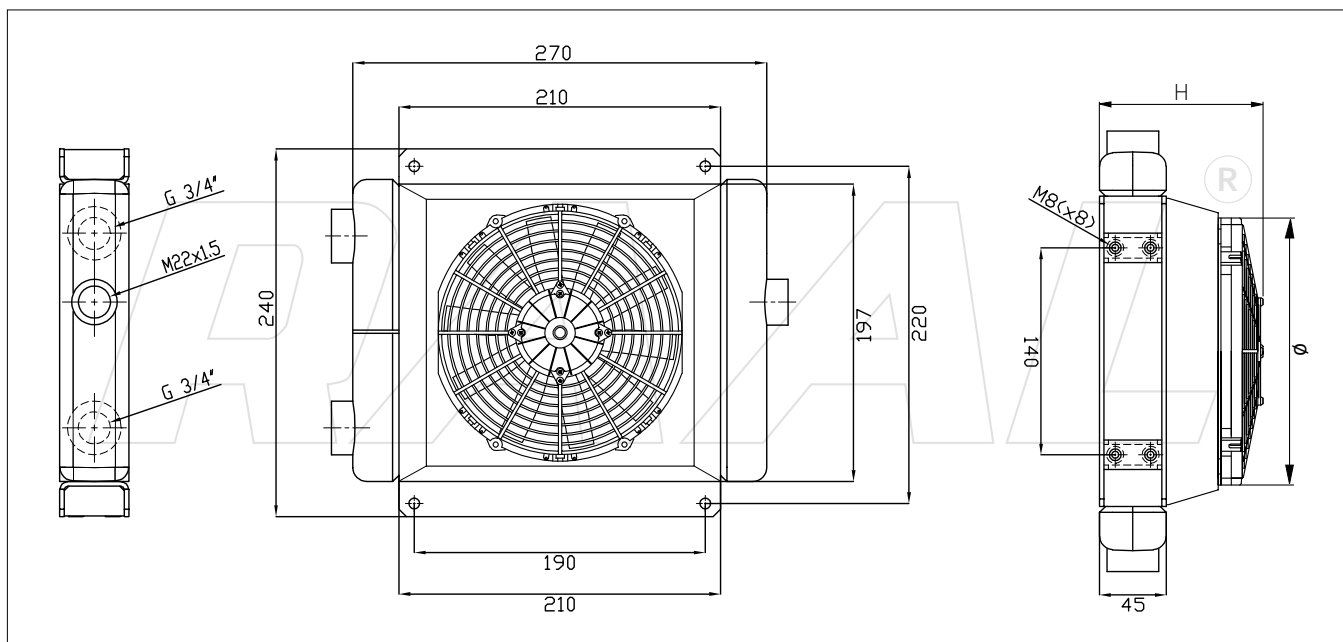
Maximum Range

Kw 3,1 : 10 lt

Kw 6 : 80 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



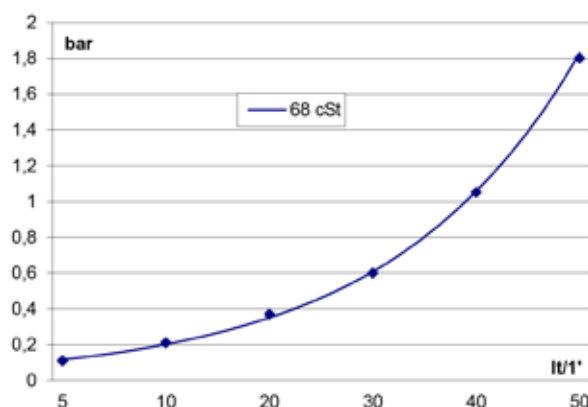
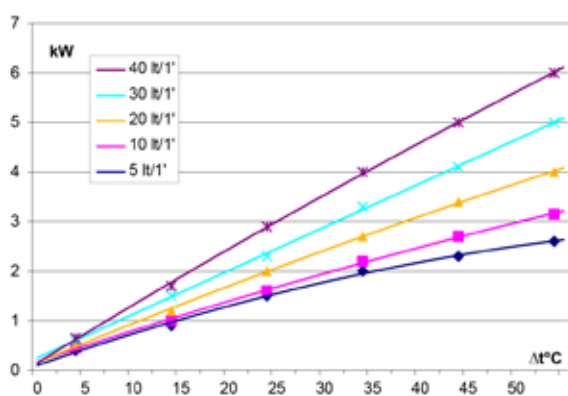
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RUV100620000	UNCOVERED	45	-	-	1,91	-
RUV100620011	12V Suct.	140	190	446	1,91	6,4 A
RUV100620012	12V Blow.	140	190	497	1,91	6,4 A
RUV100620021	24V Suct.	140	190	419	1,91	2,8 A
RUV100620022	24V Blow.	140	190	505	1,91	3,3 A
RUV100620031	230V-50/60Hz Suct.	135	200	1025	1,91	0,34 A
RUV100620032	230V-50/60Hz Blow.	135	200	1025	1,91	0,13 A
RUV100620041	230/400V-50/60Hz 3FN Suct.	135	200	1020	1,91	0,13 A
RUV100620042	230/400V-50/60Hz 3FN Blow.	135	200	1020	1,91	0,30 A
RUV100620051	Pred. Hydraulic. Suct. (Supp. G1)	185	195	958	1,91	0,7 kW
RUV100620052	Pred. Hydraulic. Blow. (Supp. G1)	185	195	958	1,91	0,7 kW

Minimum Range

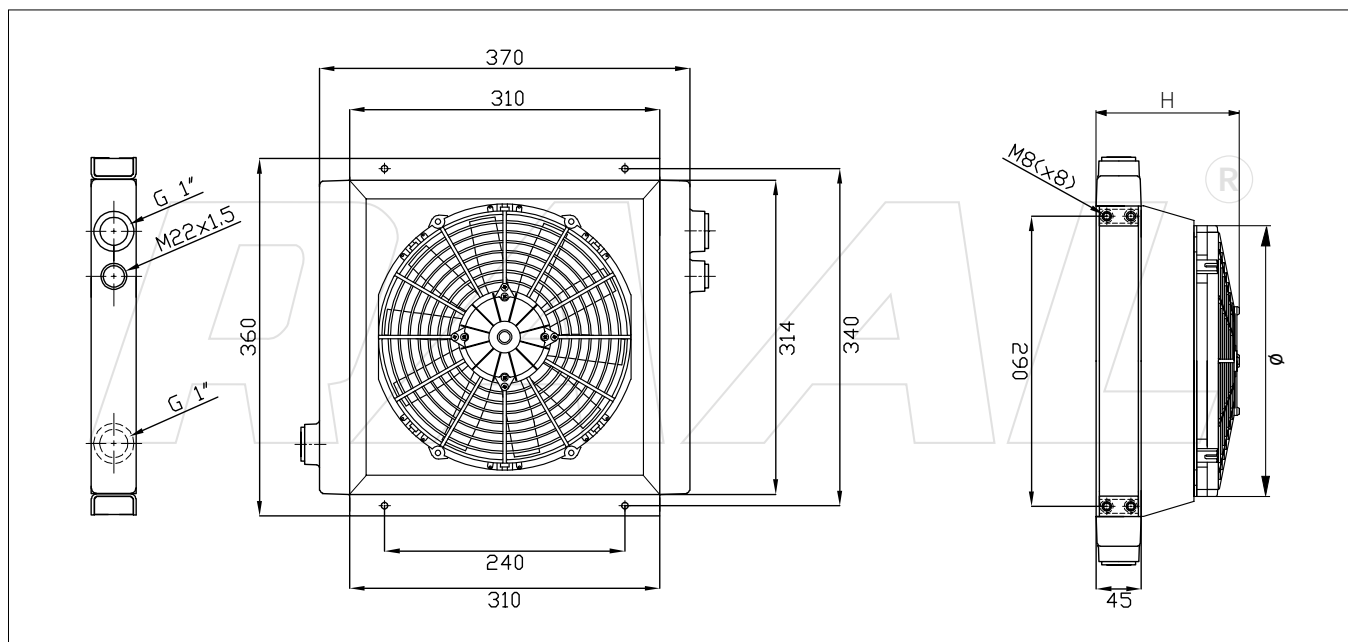
Maximum Range

Kw 2,6 : 5 lt

Kw 6 : 40 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



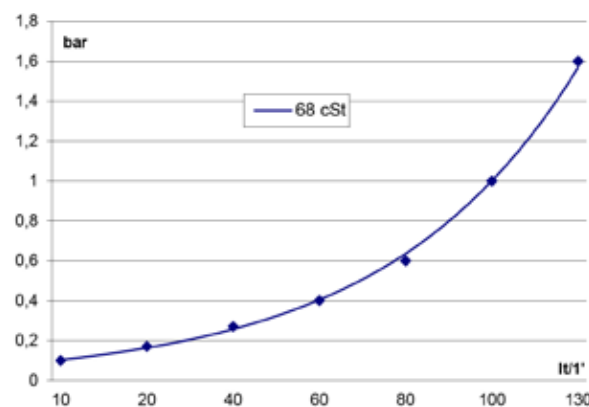
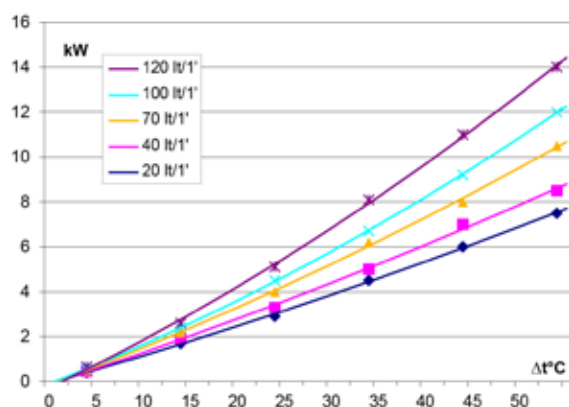
Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RUV100630000	UNCOVERED	45	-	-	4,47	-
RUV100630011	12V Suct.	210	305	1839	4,47	16,5 A
RUV100630012	12V Blow.	210	305	1736	4,47	14,9 A
RUV100630021	24V Suct.	210	305	2161	4,47	10,3 A
RUV100630022	24V Blow.	210	305	2050	4,47	9,1 A
RUV100630031	230V-50/60Hz Suct.	175	300	3745	4,47	1,55 A
RUV100630032	230V-50/60Hz Blow.	175	300	3745	4,47	1,55 A
RUV100630041	230/400V-50/60Hz 3FN Suct.	175	300	3350	4,47	0,48 A
RUV100630042	230/400V-50/60Hz 3FN Blow.	175	300	3350	4,47	0,48 A
RUV100630051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	4,47	0,41 kW
RUV100630052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	4,47	0,41 kW

Minimum Range

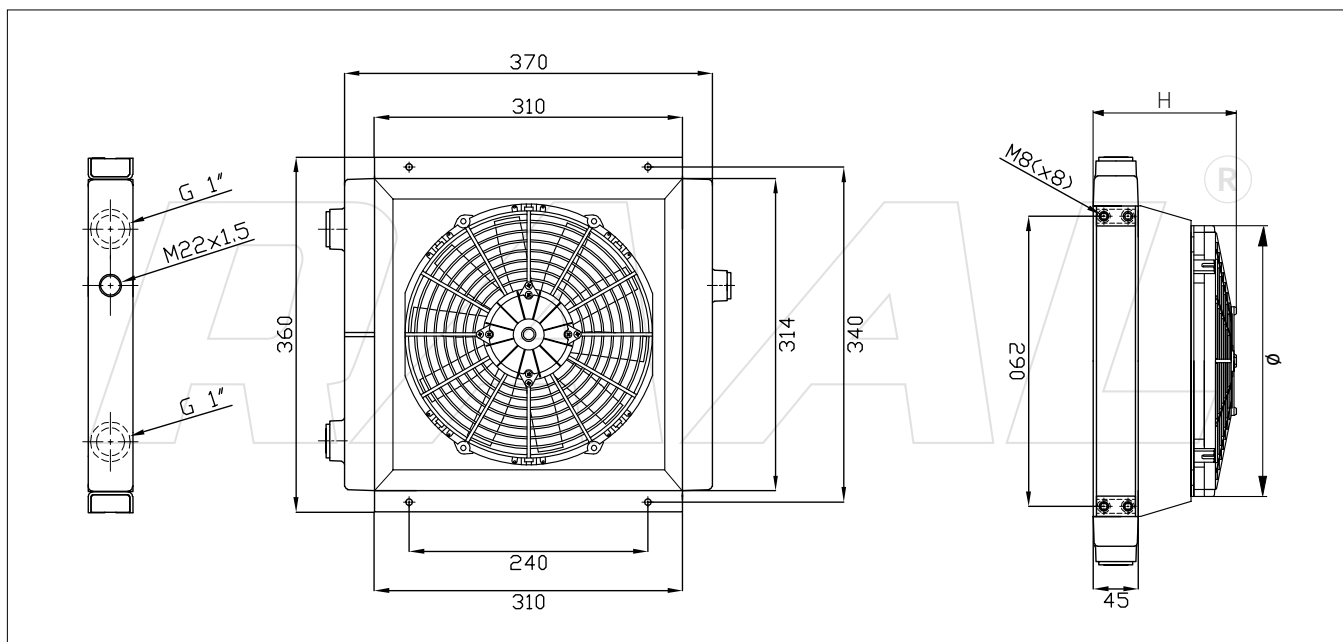
Maximum Range

Kw 7,5 : 20 lt

Kw 14 : 120 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



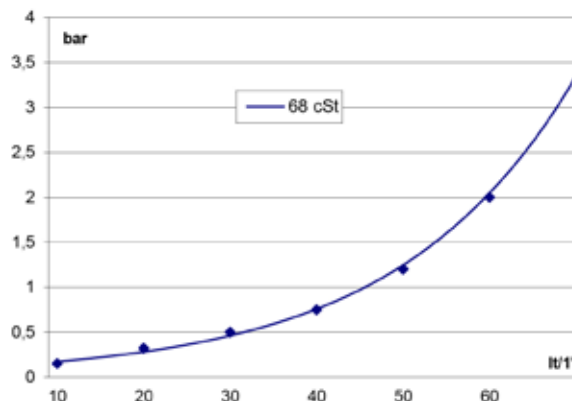
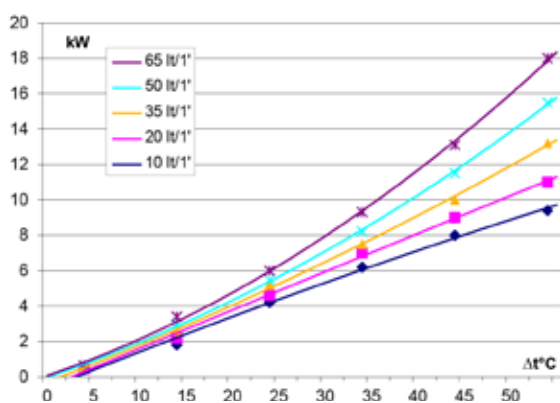
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RUV100640000	UNCOVERED	45	-	-	4,47	-
RUV100640011	12V Suct.	210	305	1839	4,47	16,5 A
RUV100640012	12V Blow.	210	305	1736	4,47	14,9 A
RUV100640021	24V Suct.	210	305	2161	4,47	10,3 A
RUV100640022	24V Blow.	210	305	2050	4,47	9,1 A
RUV100640031	230V-50/60Hz Suct.	175	300	3745	4,47	1,55 A
RUV100640032	230V-50/60Hz Blow.	175	300	3745	4,47	1,55 A
RUV100640041	230/400V-50/60Hz 3FN Suct.	175	300	3350	4,47	0,48 A
RUV100640042	230/400V-50/60Hz 3FN Blow.	175	300	3350	4,47	0,48 A
RUV100640051	Pred. Hydraulic. Suct. (Supp. G2)	225	300	3080	4,47	0,41 kW
RUV100640052	Pred. Hydraulic. Blow. (Supp. G2)	225	300	3080	4,47	0,41 kW

Minimum Range

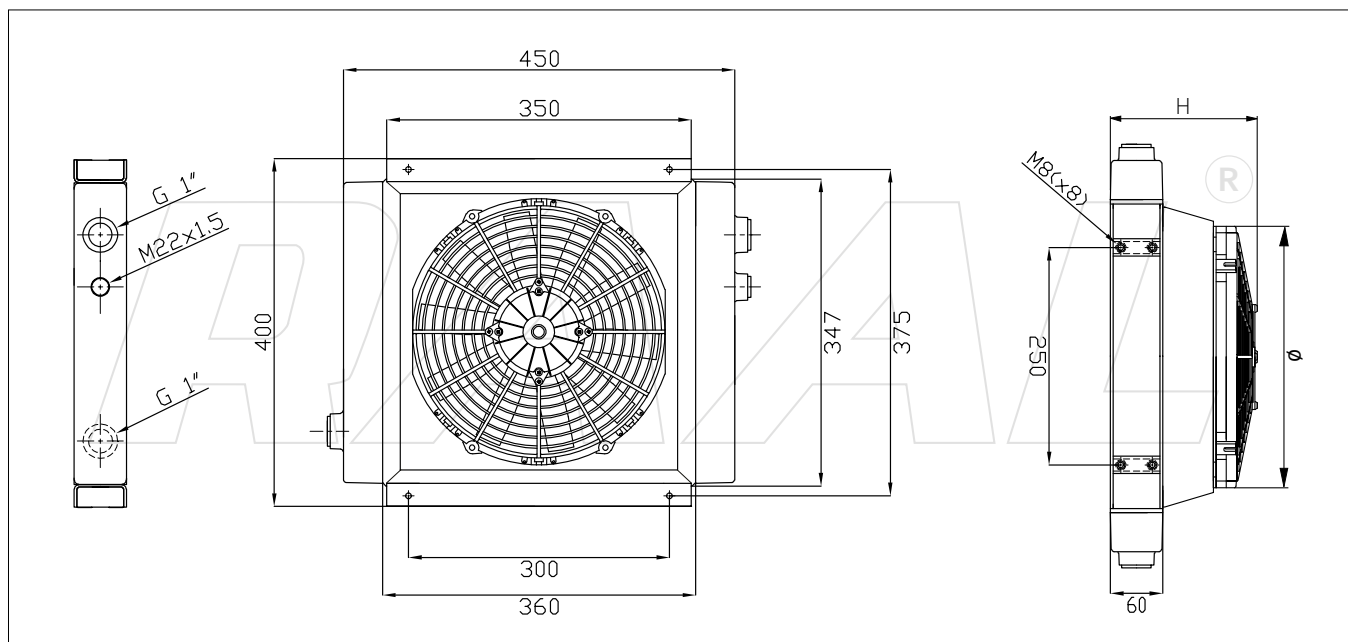
Kw 9,2 : 10 lt

Maximum Range

Kw 18 : 65 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



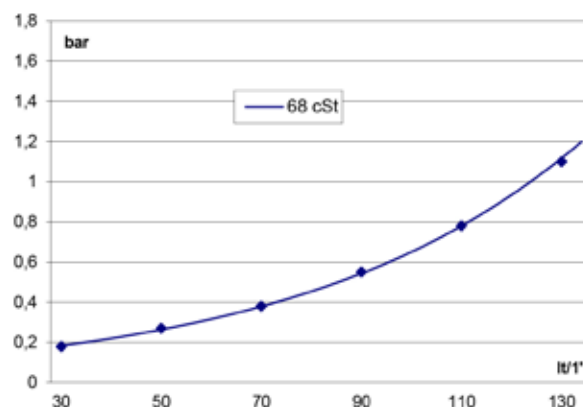
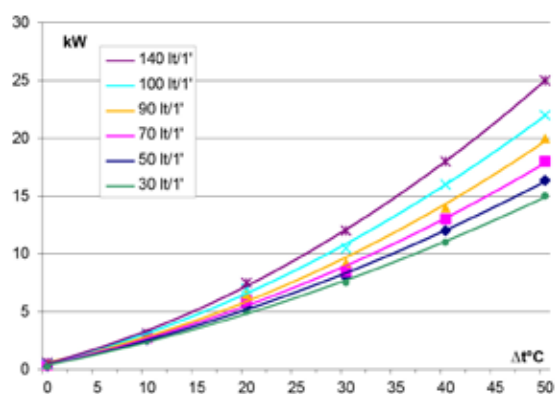
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RUV100650000	UNCOVERED	60	-	-	7,87	-
RUV100650011	12V Suct.	225	305	1839	7,87	16,5 A
RUV100650012	12V Blow.	225	305	1736	7,87	14,9 A
RUV100650021	24V Suct.	225	305	2161	7,87	10,3 A
RUV100650022	24V Blow.	225	305	2050	7,87	9,1 A
RUV100650031	230V-50/60Hz Suct.	190	300	3745	7,87	1,55 A
RUV100650032	230V-50/60Hz Blow.	190	300	3745	7,87	1,55 A
RUV100650041	230/400V-50/60Hz 3FN Suct.	190	300	3350	7,87	0,48 A
RUV100650042	230/400V-50/60Hz 3FN Blow.	190	300	3350	7,87	0,48 A
RUV100650051	Pred. Hydraulic. Suct. (Supp. G2)	240	300	3080	7,87	0,41 kW
RUV100650052	Pred. Hydraulic. Blow. (Supp. G2)	240	300	3080	7,87	0,41 kW

Minimum Range

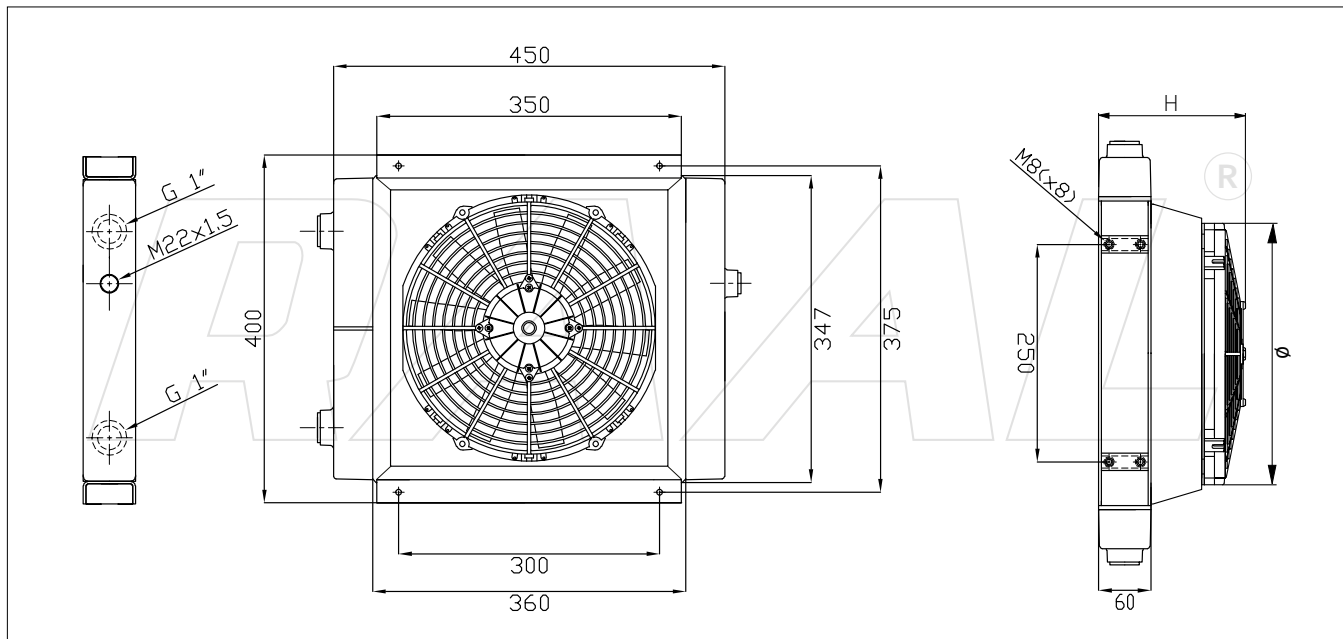
Maximum Range

Kw 15 : 30 lt

Kw 25 : 140 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



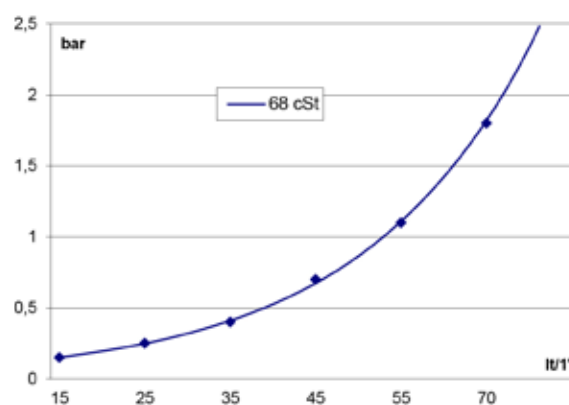
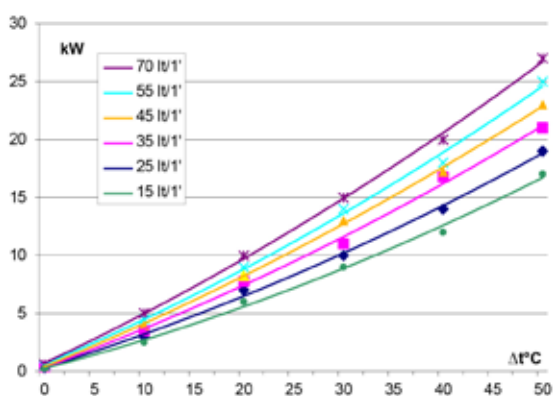
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RUV100660000	UNCOVERED	60	-	-	7,87	-
RUV100660011	12V Suct.	225	305	1839	7,87	16,5 A
RUV100660012	12V Blow.	225	305	1736	7,87	14,9 A
RUV100660021	24V Suct.	225	305	2161	7,87	10,3 A
RUV100660022	24V Blow.	225	305	2050	7,87	9,1 A
RUV100660031	230V-50/60Hz Suct.	190	300	3745	7,87	1,55 A
RUV100660032	230V-50/60Hz Blow.	190	300	3745	7,87	1,55 A
RUV100660041	230/400V-50/60Hz 3FN Suct.	190	300	3350	7,87	0,48 A
RUV100660042	230/400V-50/60Hz 3FN Blow.	190	300	3350	7,87	0,48 A
RUV100660051	Pred. Hydraulic. Suct. (Supp. G2)	240	300	3080	7,87	0,41 kW
RUV100660052	Pred. Hydraulic. Blow. (Supp. G2)	240	300	3080	7,87	0,41 kW

Minimum Range

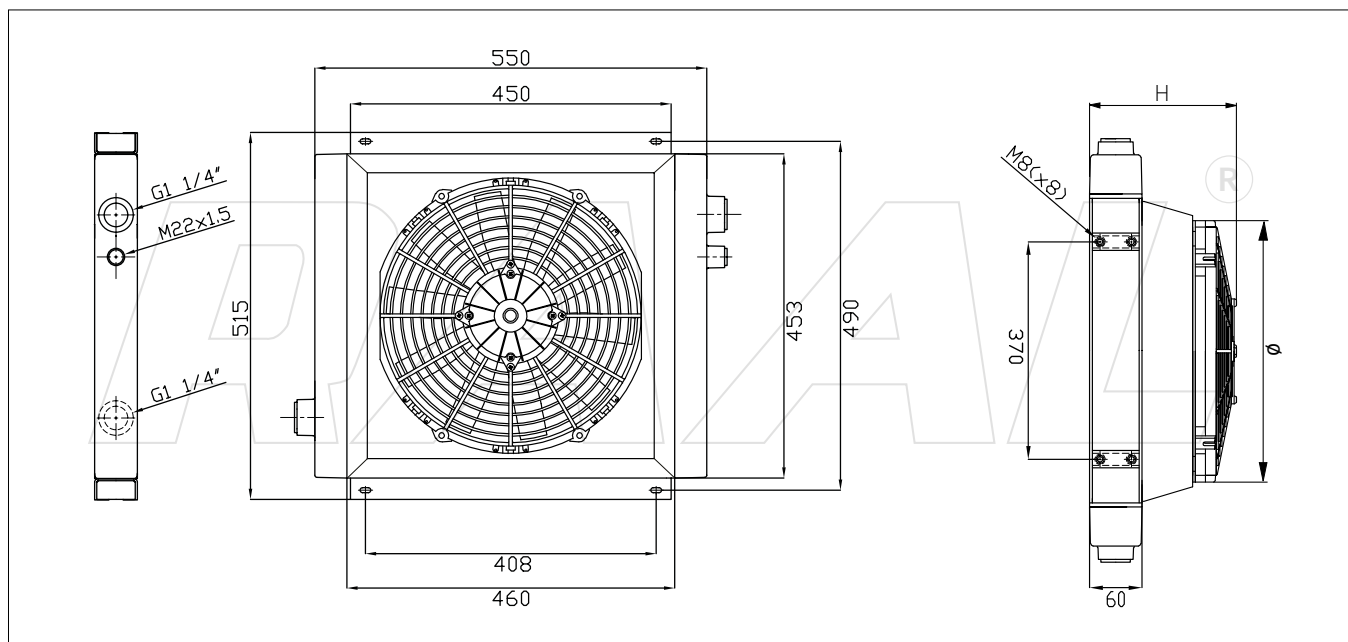
Maximum Range

Kw 17 : 15 lt

Kw 27 : 70 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



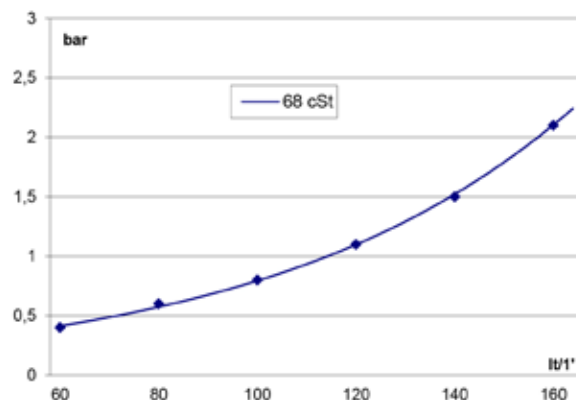
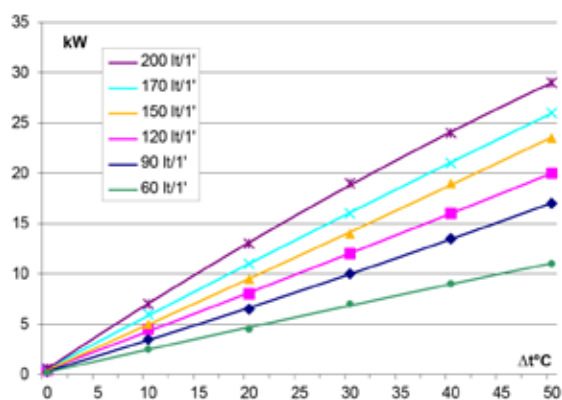
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RUV100690000	UNCOVERED	60	-	-	12,50	-
RUV100690011	12V Suct.	225	385	2212	12,50	16,0 A
RUV100690012	12V Blow.	225	385	2412	12,50	16,2 A
RUV100690021	24V Suct.	225	385	2577	12,50	9,3 A
RUV100690022	24V Blow.	225	385	2609	12,50	9,0 A
RUV100690031	230V-50/60Hz Suct.	225	400	4950	12,50	1,06 A
RUV100690032	230V-50/60Hz Blow.	225	400	4950	12,50	1,06 A
RUV100690041	230/400V-50/60Hz 3FN Suct.	225	400	4615	12,50	0,39 A
RUV100690042	230/400V-50/60Hz 3FN Blow.	225	400	4615	12,50	0,39 A
RUV100690051	Pred. Hydraulic. Suct. (Supp. G2)	245	400	7050	12,50	1,5 kW
RUV100690052	Pred. Hydraulic. Blow. (Supp. G2)	245	400	7050	12,50	1,5 kW

Minimum Range

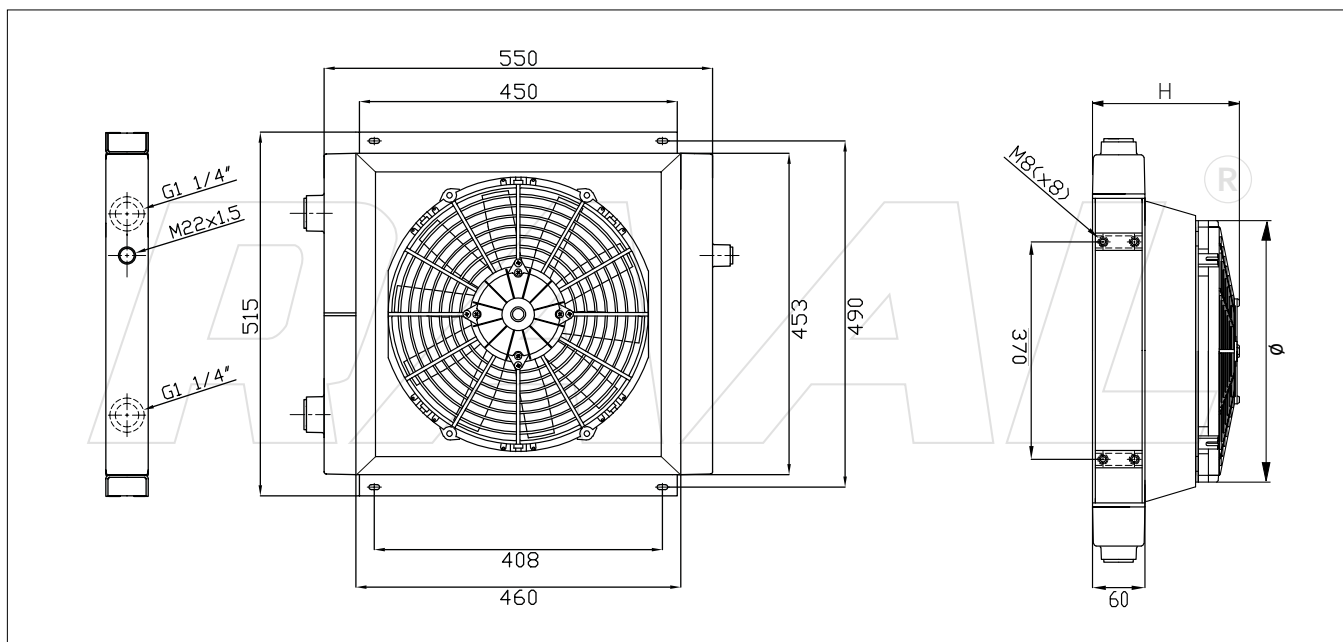
Maximum Range

Kw 11 : 60 lt

Kw 28 : 200 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



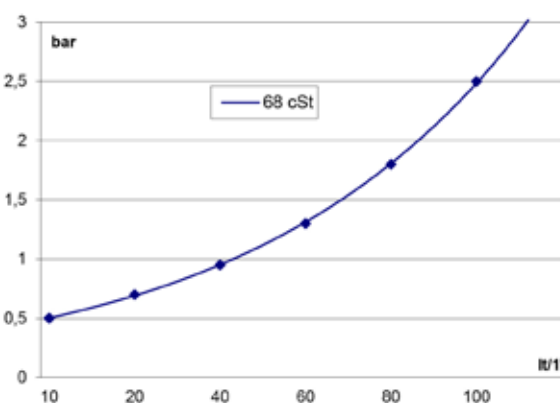
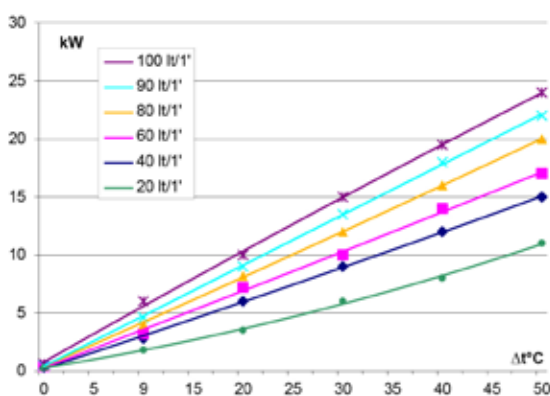
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RUV100700000	UNCOVERED	60	-	-	12,50	-
RUV100700011	12V Suct.	225	385	2212	12,50	16,0 A
RUV100700012	12V Blow.	225	385	2412	12,50	16,2 A
RUV100700021	24V Suct.	225	385	2577	12,50	9,3 A
RUV100700022	24V Blow.	225	385	2609	12,50	9,0 A
RUV100700031	230V-50/60Hz Suct.	225	400	4950	12,50	1,06 A
RUV100700032	230V-50/60Hz Blow.	225	400	4950	12,50	1,06 A
RUV100700041	230/400V-50/60Hz 3FN Suct.	225	400	4615	12,50	0,39 A
RUV100700042	230/400V-50/60Hz 3FN Blow.	225	400	4615	12,50	0,39 A
RUV100700051	Pred. Hydraulic. Suct. (Supp. G2)	245	400	7050	12,50	1,5 kW
RUV100700052	Pred. Hydraulic. Blow. (Supp. G2)	245	400	7050	12,50	1,5 kW

Minimum Range

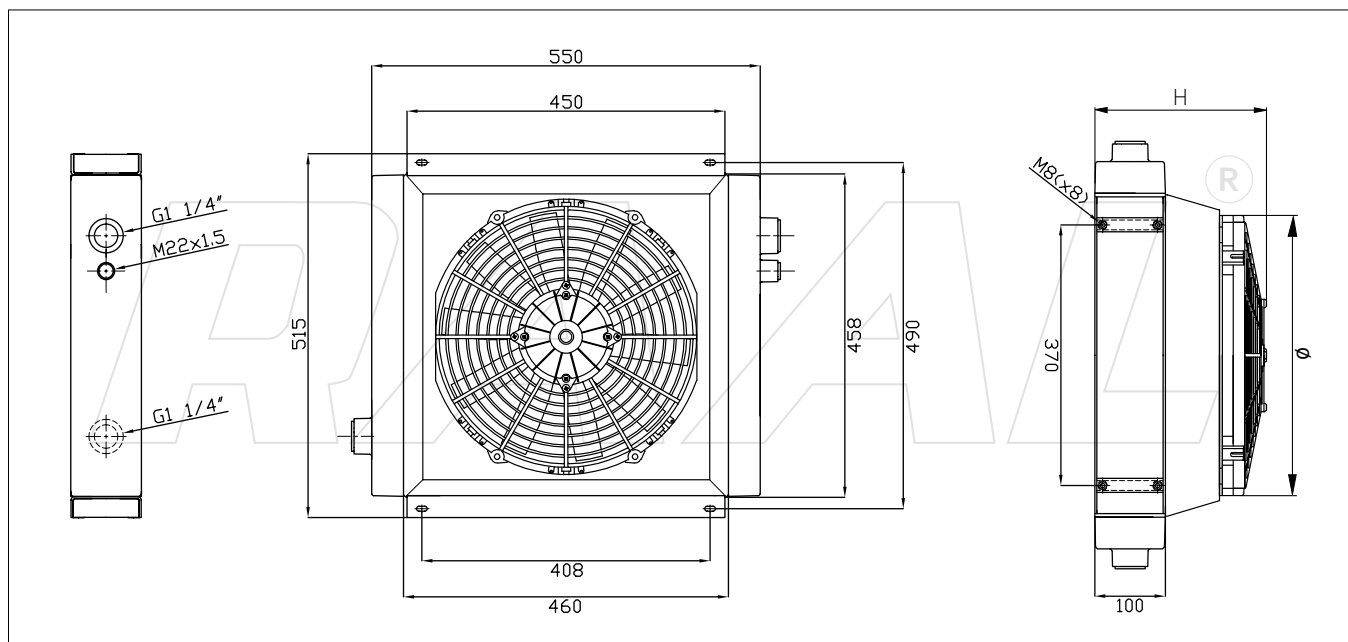
Maximum Range

Kw 11 : 20 Lt

Kw 24 : 100 Lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



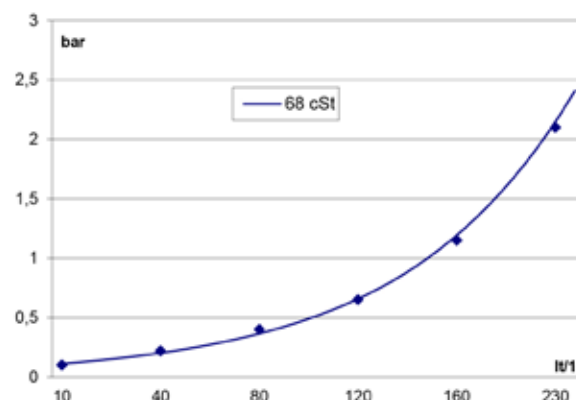
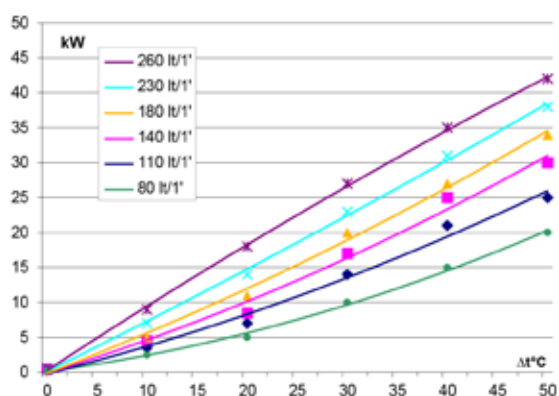
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RUV100710000	UNCOVERED	100	-	-	19,67	-
RUV100710011	12V Suct.	265	385	2212	19,67	16,0 A
RUV100710012	12V Blow.	265	385	2412	19,67	16,2 A
RUV100710021	24V Suct.	265	385	2577	19,67	9,3 A
RUV100710022	24V Blow.	265	385	2609	19,67	9,0 A
RUV100710031	230V-50/60Hz Suct.	265	400	4950	19,67	1,06 A
RUV100710032	230V-50/60Hz Blow.	265	400	4950	19,67	1,06 A
RUV100710041	230/400V-50/60Hz 3FN Suct.	265	400	4615	19,67	0,39 A
RUV100710042	230/400V-50/60Hz 3FN Blow.	265	400	4615	19,67	0,39 A
RUV100710051	Pred. Hydraulic. Suct. (Supp. G2)	285	400	7050	19,67	1,5 kW
RUV100710052	Pred. Hydraulic. Blow. (Supp. G2)	285	400	7050	19,67	1,5 kW

Minimum Range

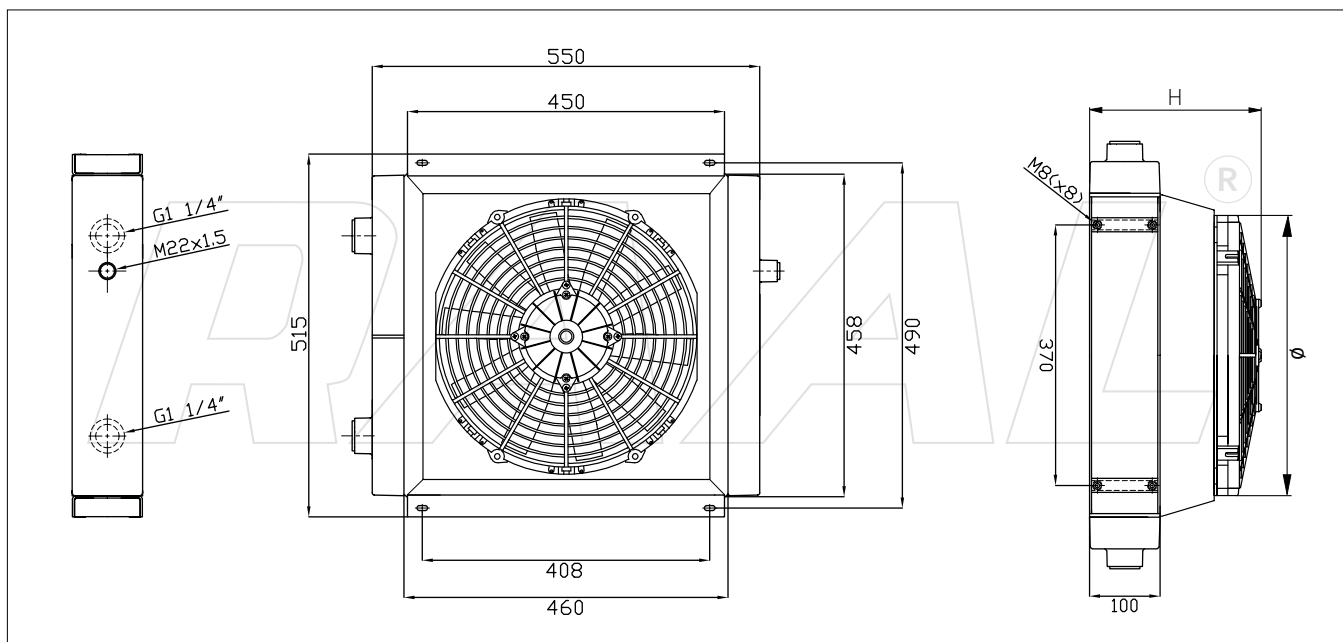
Maximum Range

Kw 20 : 80 lt

Kw 42 : 260 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



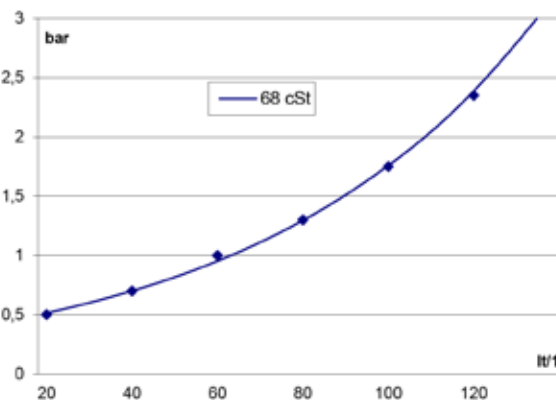
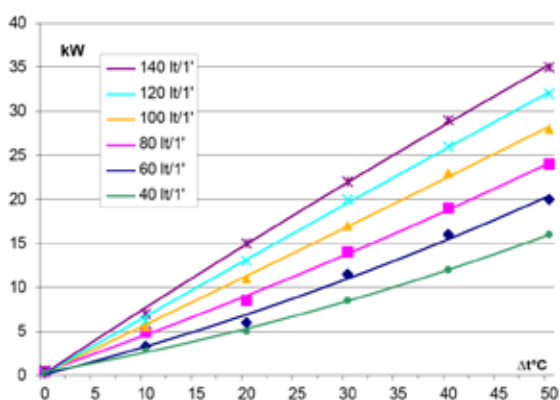
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RUV100720000	UNCOVERED	100	-	-	19,67	-
RUV100720011	12V Suct.	265	385	2212	19,67	16,0 A
RUV100720012	12V Blow.	265	385	2412	19,67	16,2 A
RUV100720021	24V Suct.	265	385	2577	19,67	9,3 A
RUV100720022	24V Blow.	265	385	2609	19,67	9,0 A
RUV100720031	230V-50/60Hz Suct.	265	400	4950	19,67	1,06 A
RUV100720032	230V-50/60Hz Blow.	265	400	4950	19,67	1,06 A
RUV100720041	230/400V-50/60Hz 3FN Suct.	265	400	4615	19,67	0,39 A
RUV100720042	230/400V-50/60Hz 3FN Blow.	265	400	4615	19,67	0,39 A
RUV100720051	Pred. Hydraulic. Suct. (Supp. G2)	285	400	7050	19,67	1,5 kW
RUV100720052	Pred. Hydraulic. Blow. (Supp. G2)	285	400	7050	19,67	1,5 kW

Minimum Range

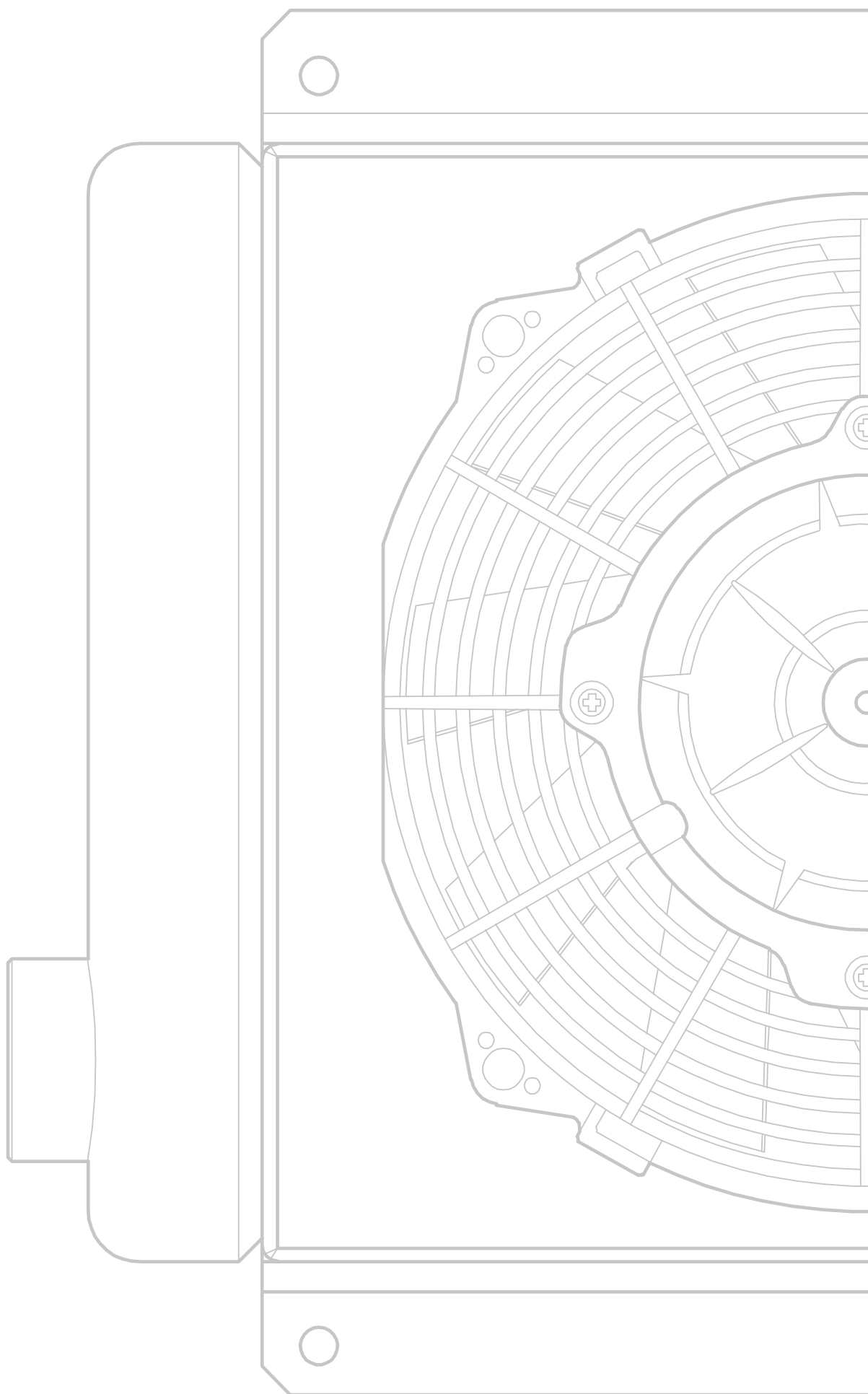
Maximum Range

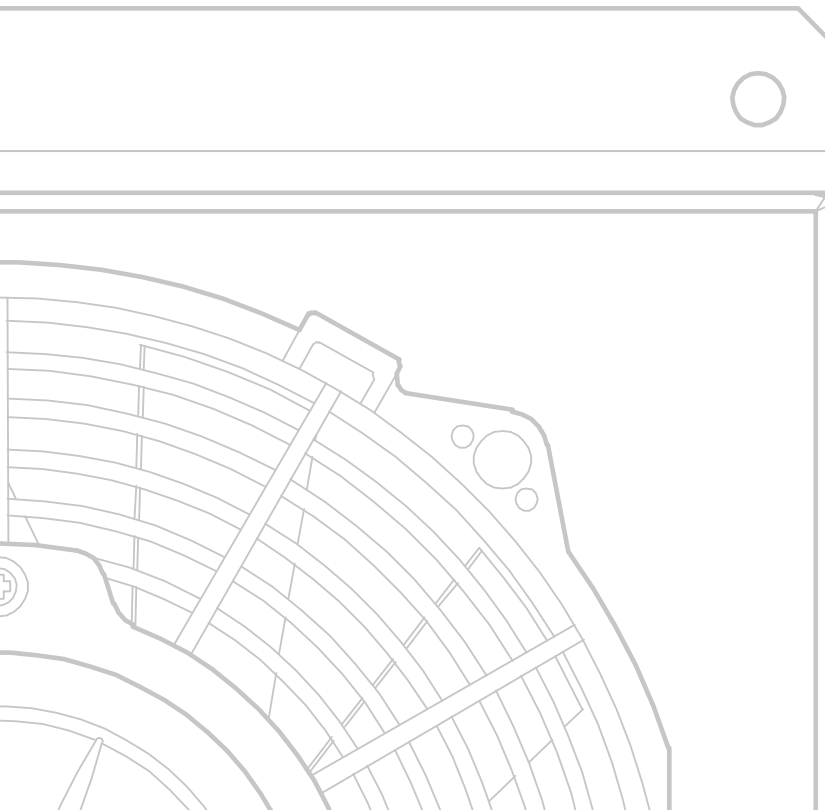
Kw 16 : 40 Lt

Kw 35 : 140 Lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



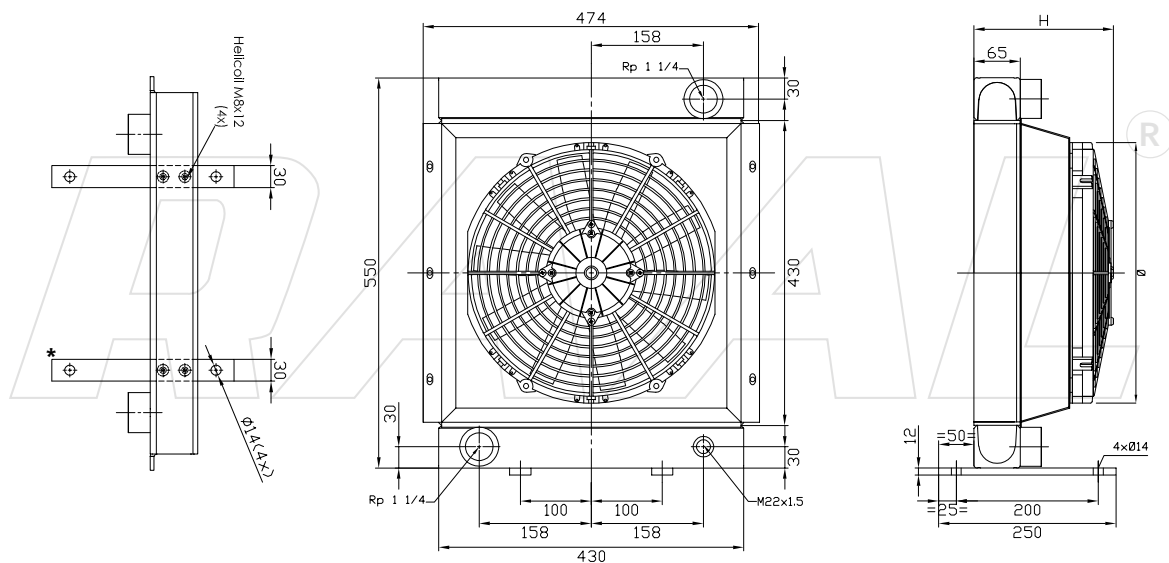


Coolers GRV Series



The heat exchangers of the **GRV** series are entirely made in aluminum in plate & bar construction system obtained by the vacuum brazing process. The **GRV** series is designed to be applied on industrial scale, having the ability to cover high flow rates with excellent performance.

GRV 350S



* Removable feet

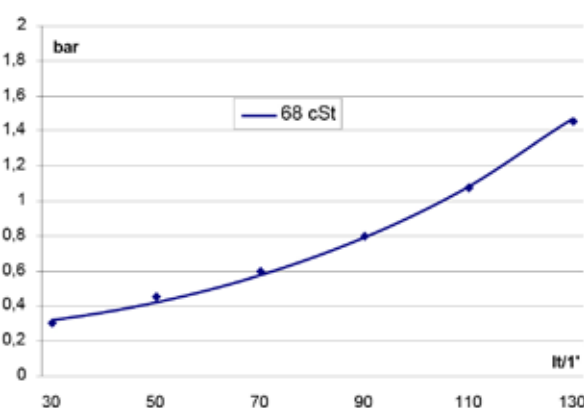
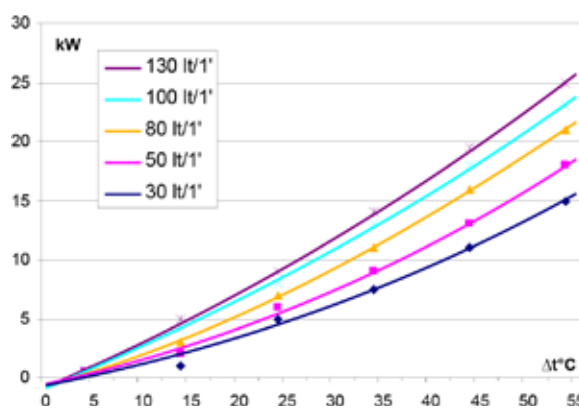
Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0105680000	UNCOVERED	65	-	-	12,02	-
RU0105680011	12V Suct.	230	305	1839	12,02	16,5 A
RU0105680012	12V Blow.	230	305	1736	12,02	14,9 A
RU0105680021	24V Suct.	230	305	2161	12,02	10,3 A
RU0105680022	24V Blow.	230	305	2050	12,02	9,1 A
RU0105680031	230V-50/60Hz Suct.	190	300	3745	12,02	1,55 A
RU0105680032	230V-50/60Hz Blow.	190	300	3745	12,02	1,55 A
RU0105680041	230/400V-50/60Hz 3FN Suct.	190	300	3350	12,02	0,48 A
RU0105680042	230/400V-50/60Hz 3FN Blow.	190	300	3350	12,02	0,48 A
RU0105680051	Pred. Hydraulic. Suct. (Supp. G2)	245	300	3080	12,02	0,41 kW
RU0105680052	Pred. Hydraulic. Blow. (Supp. G2)	245	300	3080	12,02	0,41 kW

Minimum Range

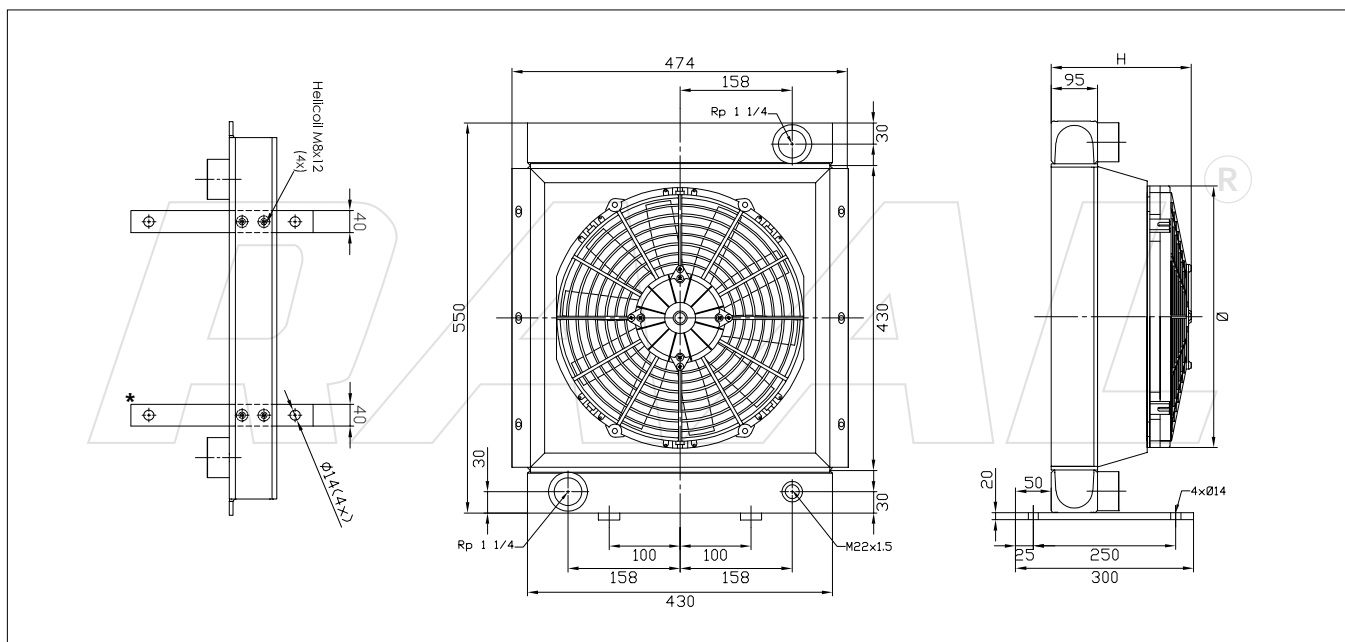
Maximum Range

Kw 15 : 30 lt

Kw 25 : 130 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



* Removable feet

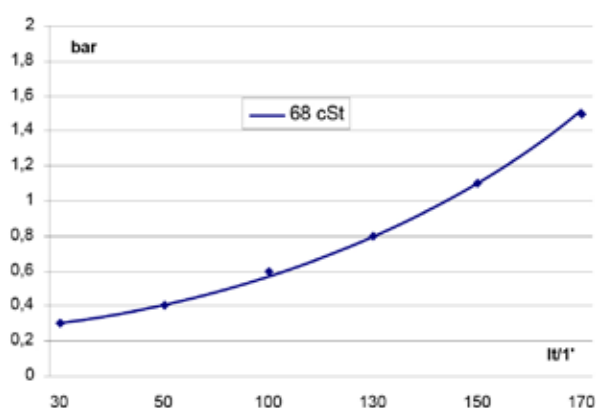
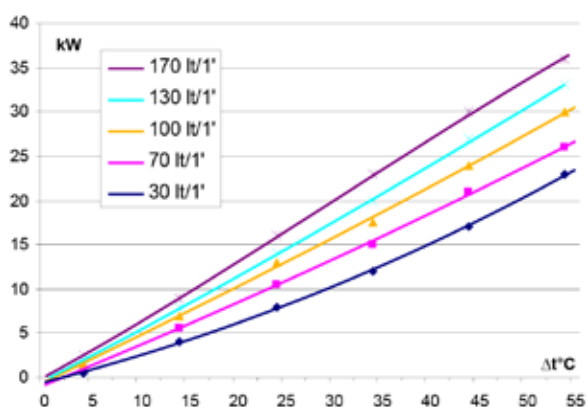
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RU0105690000	UNCOVERED	95	-	-	17,57	-
RU0105690011	12V Suct.	260	305	1839	17,57	16,5 A
RU0105690012	12V Blow.	260	305	1736	17,57	14,9 A
RU0105690021	24V Suct.	260	305	2161	17,57	10,3 A
RU0105690022	24V Blow.	260	305	2050	17,57	9,1 A
RU0105690031	230V-50/60Hz Suct.	220	300	3745	17,57	1,55 A
RU0105690032	230V-50/60Hz Blow.	220	300	3745	17,57	1,55 A
RU0105690041	230/400V-50/60Hz 3FN Suct.	220	300	3350	17,57	0,48 A
RU0105690042	230/400V-50/60Hz 3FN Blow.	220	300	3350	17,57	0,48 A
RU0105690051	Pred. Hydraulic. Suct. (Supp. G2)	275	300	3080	17,57	0,41 kW
RU0105690052	Pred. Hydraulic. Blow. (Supp. G2)	275	300	3080	17,57	0,41 kW

Minimum Range

Maximum Range

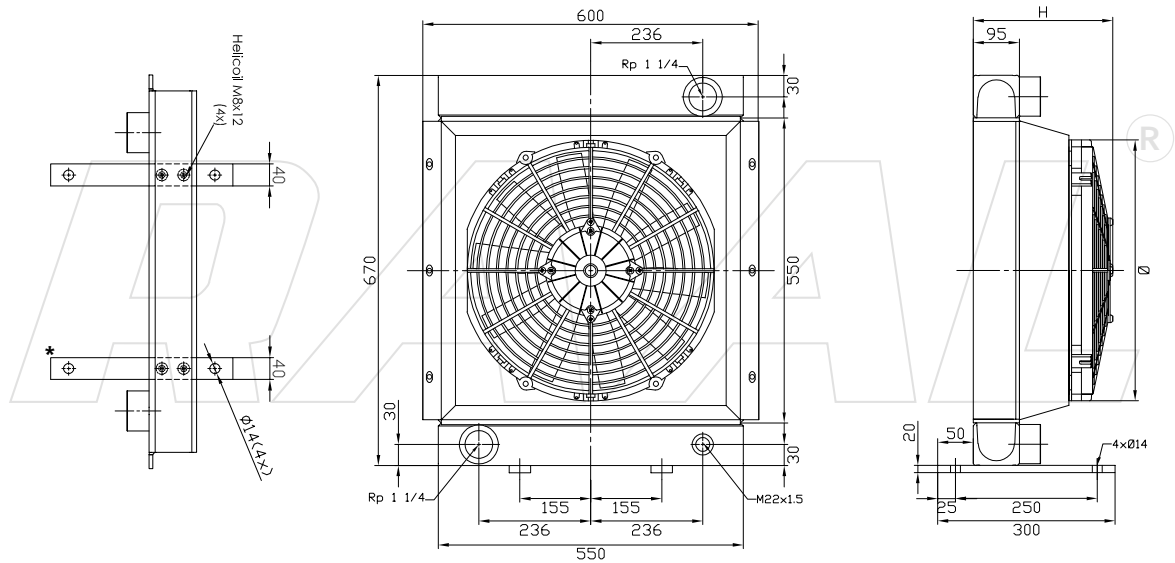
Kw 24 : 30 lt

Kw 36 : 170 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRV 850S



* Removable feet

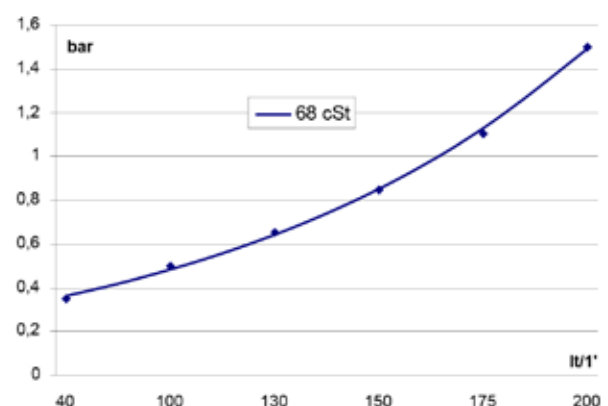
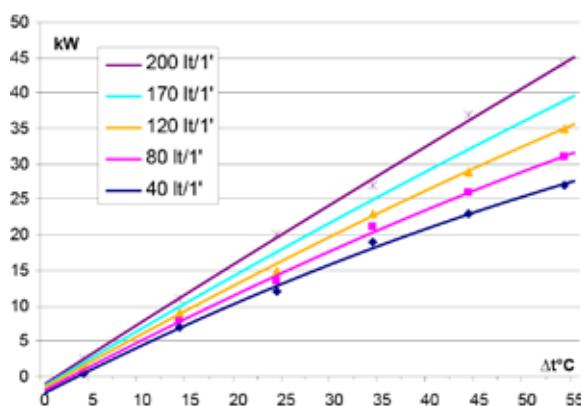
Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0105700000	UNCOVERED	95	-	-	28,74	-
RU0105700211	12V Suct.	290	2 x 305	3678	28,74	33,0 A
RU0105700212	12V Blow.	290	2 x 305	3472	28,74	29,8 A
RU0105700221	24V Suct.	290	2 x 305	4322	28,74	20,6 A
RU0105700222	24V Blow.	290	2 x 305	4100	28,74	18,2 A
RU0105700031/32	230V-50/60Hz Suct./Blow.	310	500	9850	28,74	3,88 A
RU0105700231/32	230V-50/60Hz Suct./Blow.	255	2 x 300	7490	28,74	3,1 A
RU0105700041/42	230/400V-50/60Hz 3FN Suct./Blow.	310	500	9195	28,74	1,41 A
RU0105700241/42	230/400V-50/60Hz 3FN Suct./Blow.	255	2 x 300	6700	28,74	0,96 A
RU0105700051	Pred. Hydraulic. Suct. (Supp. G2)	305	500	13300	28,74	4,1 kW
RU0105700052	Pred. Hydraulic. Blow. (Supp. G2)	305	500	13300	28,74	4,1 kW

Minimum Range

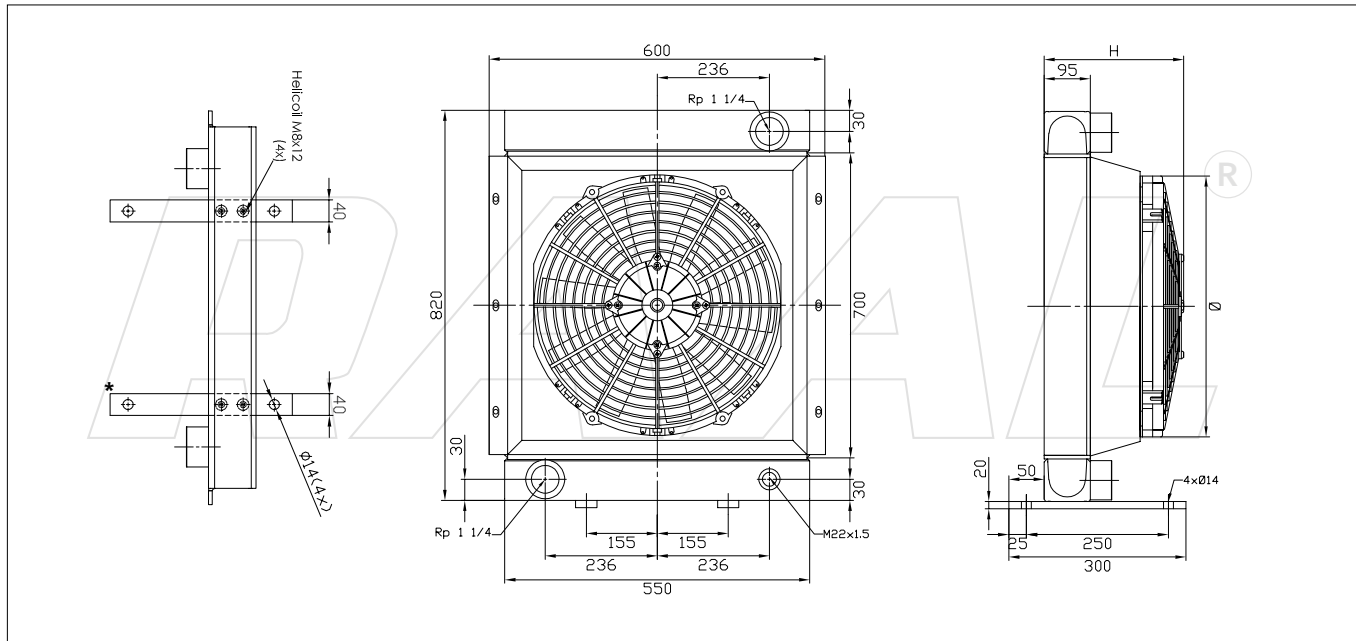
Maximum Range

Kw 26 : 40 lt

Kw 44 : 200 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



* Removable feet

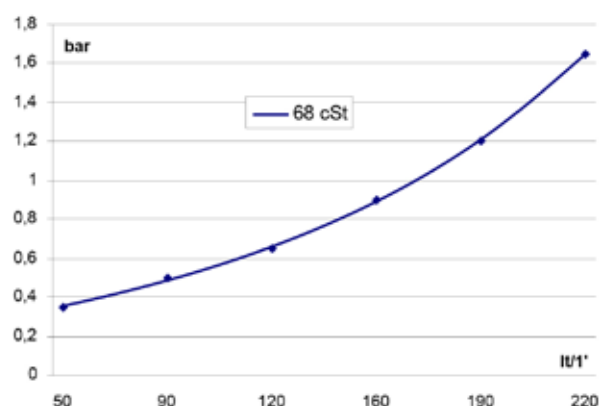
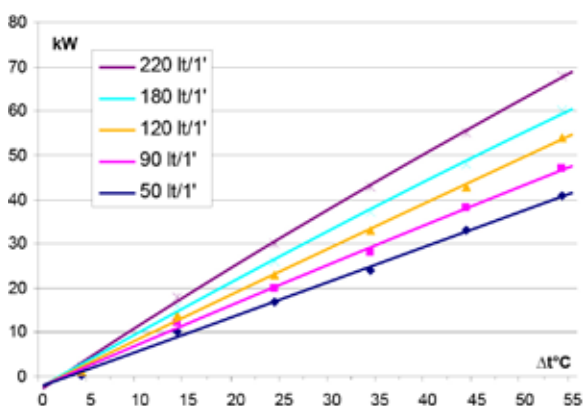
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0105710000	UNCOVERED	95	-	-	36,58	-
RU0105710211	12V Suct.	290	2 x 305	3678	36,58	33,0 A
RU0105710212	12V Blow.	290	2 x 305	3472	36,58	29,8 A
RU0105710221	24V Suct.	290	2 x 305	4322	36,58	20,6 A
RU0105710222	24V Blow.	290	2 x 305	4100	36,58	18,2 A
RU0105710031/32	230V-50/60Hz Suct./Blow.	310	500	9850	36,58	3,88 A
RU0105710231/32	230V-50/60Hz Suct./Blow.	255	2 x 300	7490	36,58	3,1 A
RU0105710041/42	230/400V-50/60Hz 3FN Suct./Blow.	310	500	9195	36,58	1,41 A
RU0105710241/42	230/400V-50/60Hz 3FN Suct./Blow.	255	2 x 300	6700	36,58	0,96 A
RU0105710051	Pred. Hydraulic. Suct. (Supp. G2)	305	500	13300	36,58	4,1 kW
RU0105710052	Pred. Hydraulic. Blow. (Supp. G2)	305	500	13300	36,58	4,1 kW

Minimum Range

Maximum Range

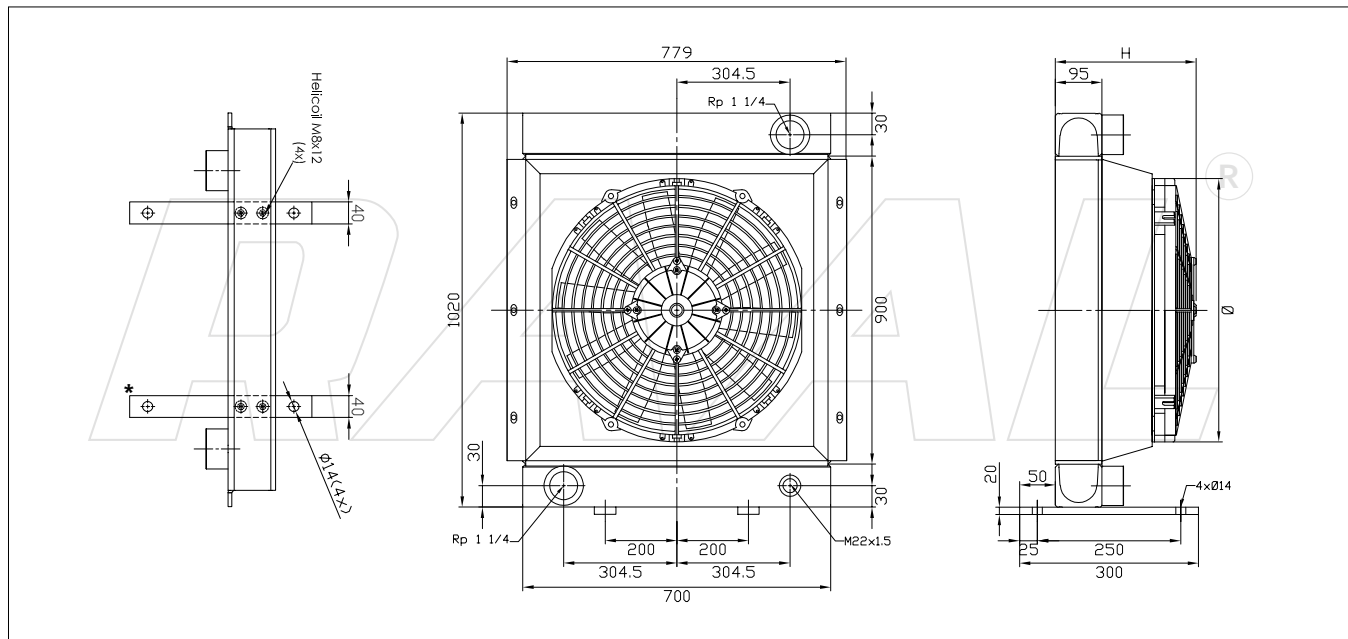
Kw 41 : 50 lt

Kw 65 : 220 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

GRV 1500S



* Removable feet

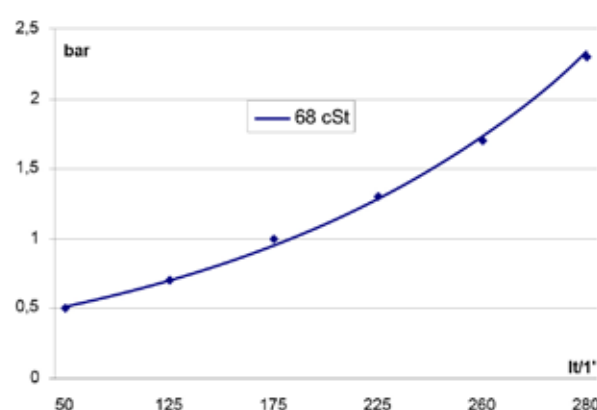
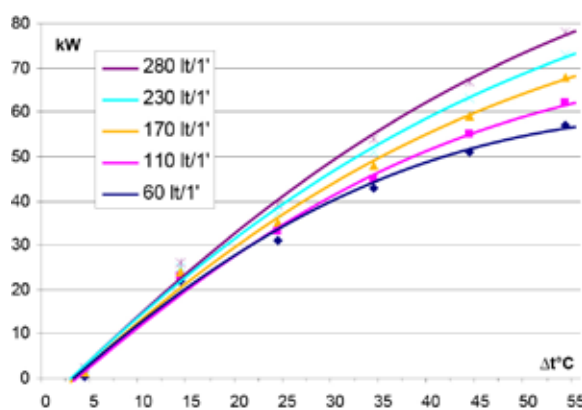
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RU0105730000	UNCOVERED	95	-	-	59,85	-
RU0105730411	12V Suct.	290	4 x 305	7356	59,85	66,0 A
RU0105730412	12V Blow.	290	4 x 305	6944	59,85	59,6 A
RU0105730421	24V Suct.	290	4 x 305	8644	59,85	41,2 A
RU0105730422	24V Blow.	290	4 x 305	8200	59,85	36,4 A
RU0105730031/32	230V-50/60Hz Suct./Blow.	320	630	11025	59,85	2,62 A
RU0105730431/32	230V-50/60Hz Suct./Blow.	255	4 x 300	14980	59,85	6,2 A
RU0105730041/42	230/400V-50/60Hz 3FN Suct./Blow.	320	630	11270	59,85	1,2 A
RU0105730441/42	230/400V-50/60Hz 3FN Suct./Blow.	255	4 x 300	13400	59,85	1,92 A
RU0105730051	Pred. Hydraulic. Suct. (Supp. G2)	325	630	23600	59,85	7,4 kW
RU0105730052	Pred. Hydraulic. Blow. (Supp. G2)	325	630	23600	59,85	7,4 kW

Minimum Range

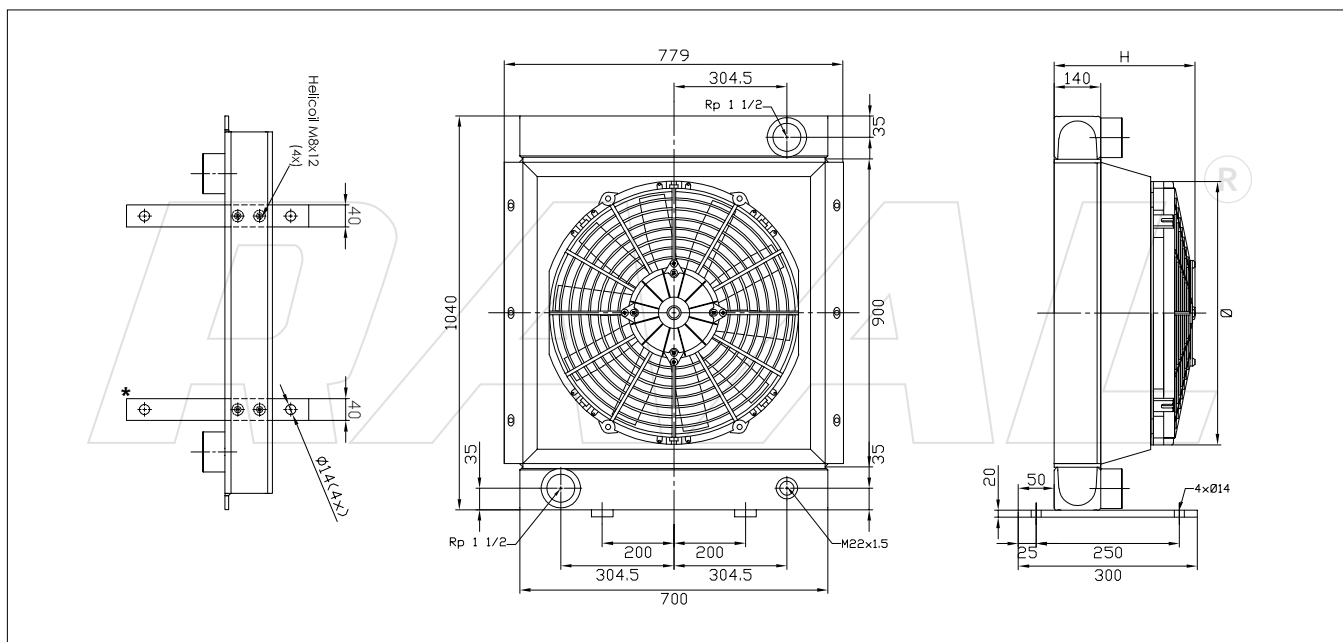
Maximum Range

Kw 58 : 60 lt

Kw 78 : 280 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



* Removable feet

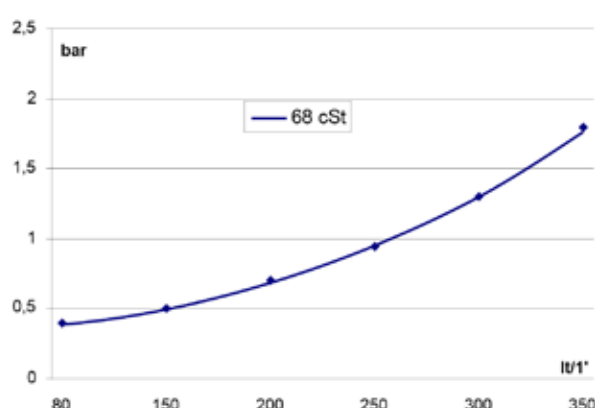
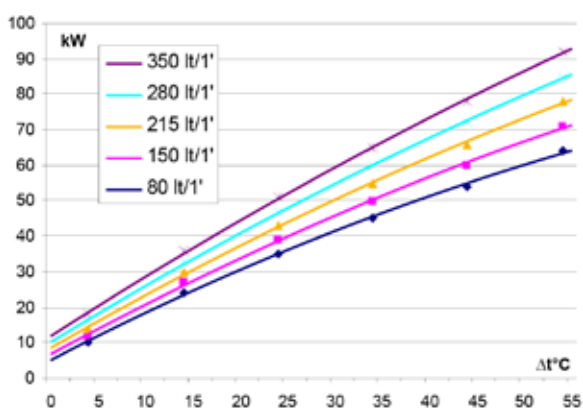
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RU0105740000	UNCOVERED	140	-	-	88,20	-
RU0105740411	12V Suct.	335	4 x 305	7356	88,20	66,0 A
RU0105740412	12V Blow.	335	4 x 305	6944	88,20	59,6 A
RU0105740421	24V Suct.	335	4 x 305	8644	88,20	41,2 A
RU0105740422	24V Blow.	335	4 x 305	8200	88,20	36,4 A
RU0105740031/32	230V-50/60Hz Suct./Blow.	365	630	11025	88,20	2,62 A
RU0105740431/32	230V-50/60Hz Suct./Blow.	295	4 x 300	14980	88,20	6,2 A
RU0105740041/42	230/400V-50/60Hz 3FN Suct./Blow.	365	630	11270	88,20	1,2 A
RU0105740441/42	230/400V-50/60Hz 3FN Suct./Blow.	295	4 x 300	13400	88,20	1,92 A
RU0105740051	Pred. Hydraulic. Suct. (Supp. G2)	370	630	23600	88,20	7,4 kW
RU0105740052	Pred. Hydraulic. Blow. (Supp. G2)	370	630	23600	88,20	7,4 kW

Minimum Range

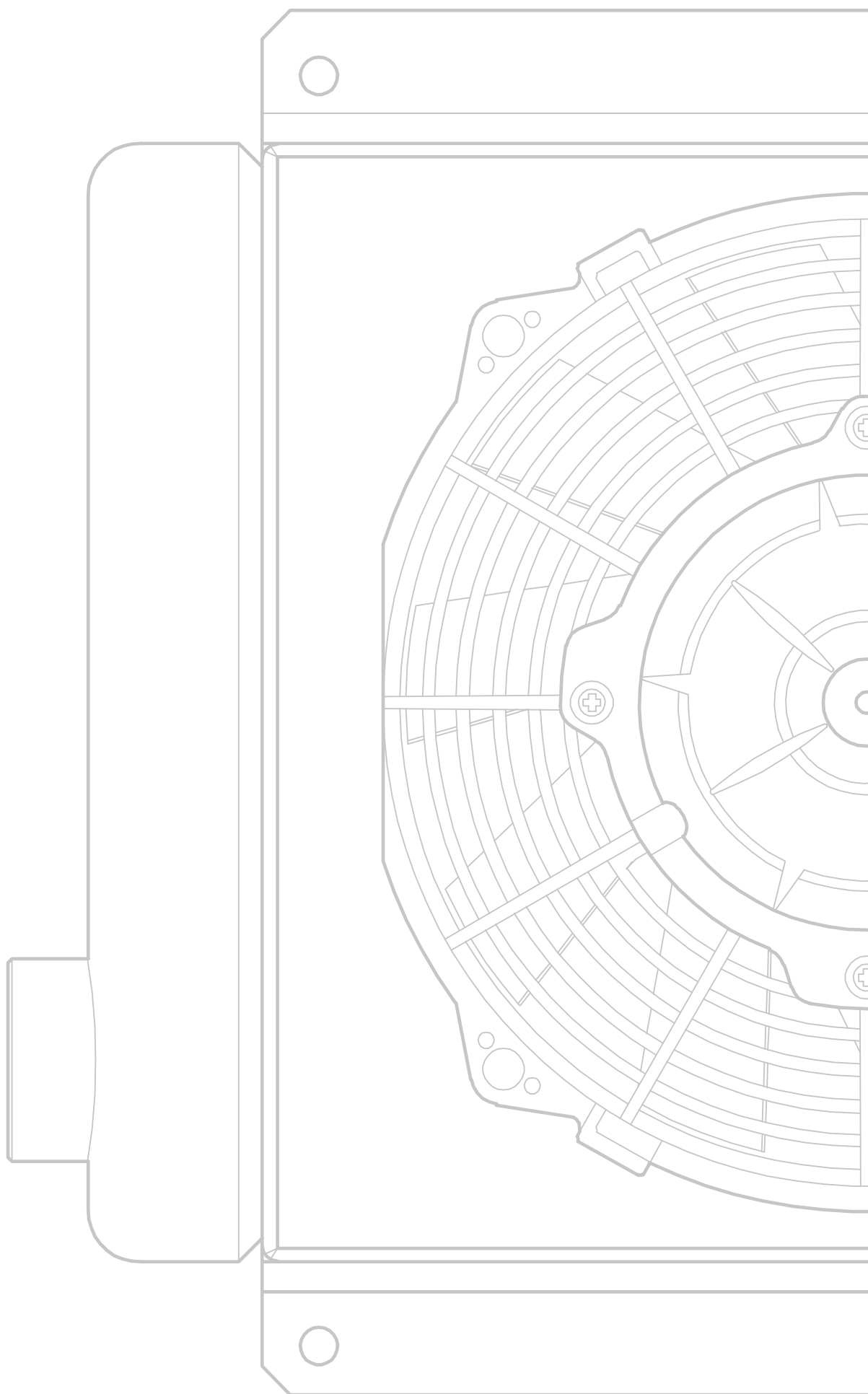
Maximum Range

Kw 65 : 80 lt

Kw 92 : 350 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

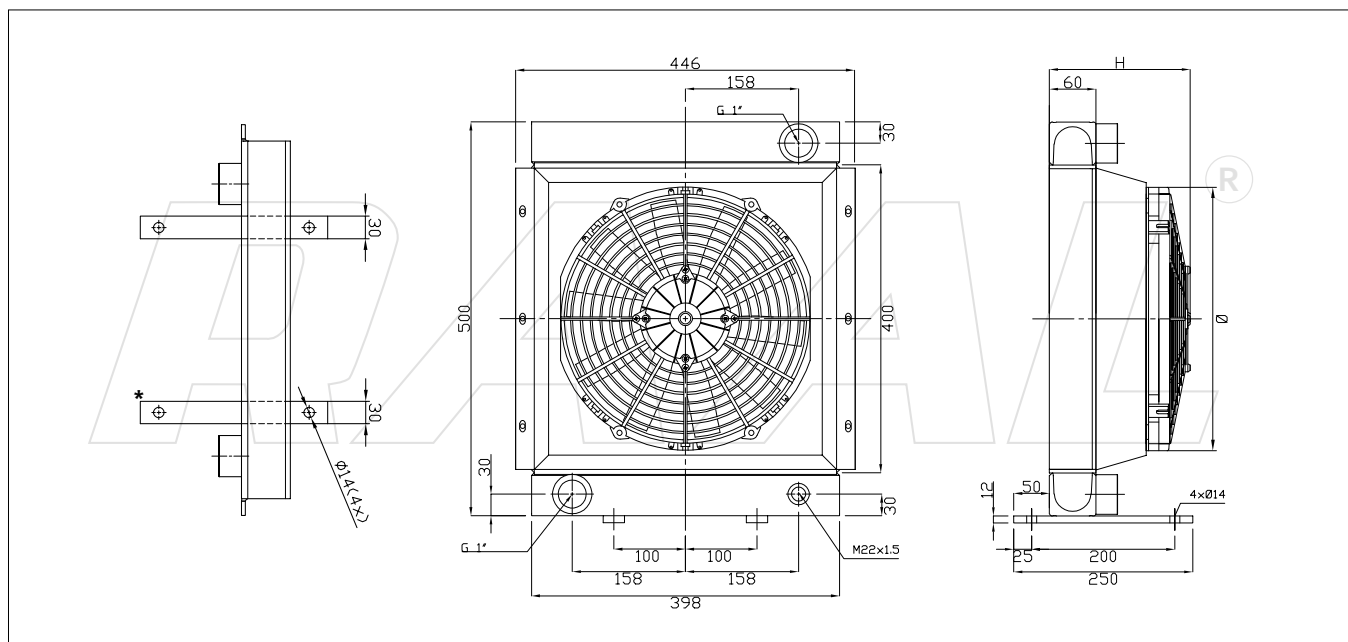


Coolers **T Series**



The heat exchangers of the **T** series are entirely made in aluminum in plate & bar construction system obtained by the vacuum brazing process. The **T** series is designed to be applied on industrial scale, having the ability to cover high flow rates with excellent performance.

T 3



* Not removable feet

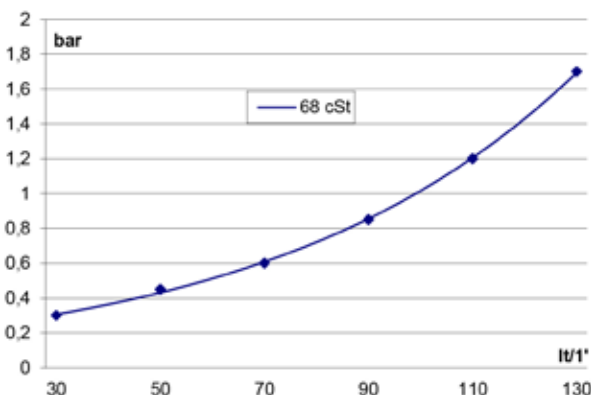
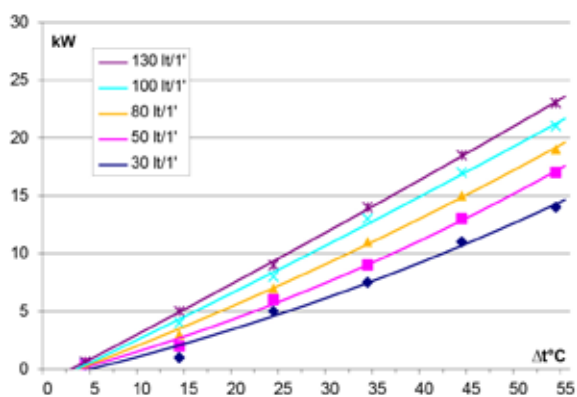
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RUT105680000	UNCOVERED	60	-	-	9,85	-
RUT105680011	12V Suct.	230	305	1839	9,85	16,5 A
RUT105680012	12V Blow.	230	305	1736	9,85	14,9 A
RUT105680021	24V Suct.	230	305	2161	9,85	10,3 A
RUT105680022	24V Blow.	230	305	2050	9,85	9,1 A
RUT105680031	230V-50/60Hz Suct.	190	300	3745	9,85	1,55 A
RUT105680032	230V-50/60Hz Blow.	190	300	3745	9,85	1,55 A
RUT105680041	230/400V-50/60Hz 3FN Suct.	190	300	3350	9,85	0,48 A
RUT105680042	230/400V-50/60Hz 3FN Blow.	190	300	3350	9,85	0,48 A
RUT105680051	Pred. Hydraulic. Suct. (Supp. G2)	245	300	3080	9,85	0,41 kW
RUT105680052	Pred. Hydraulic. Blow. (Supp. G2)	245	300	3080	9,85	0,41 kW

Minimum Range

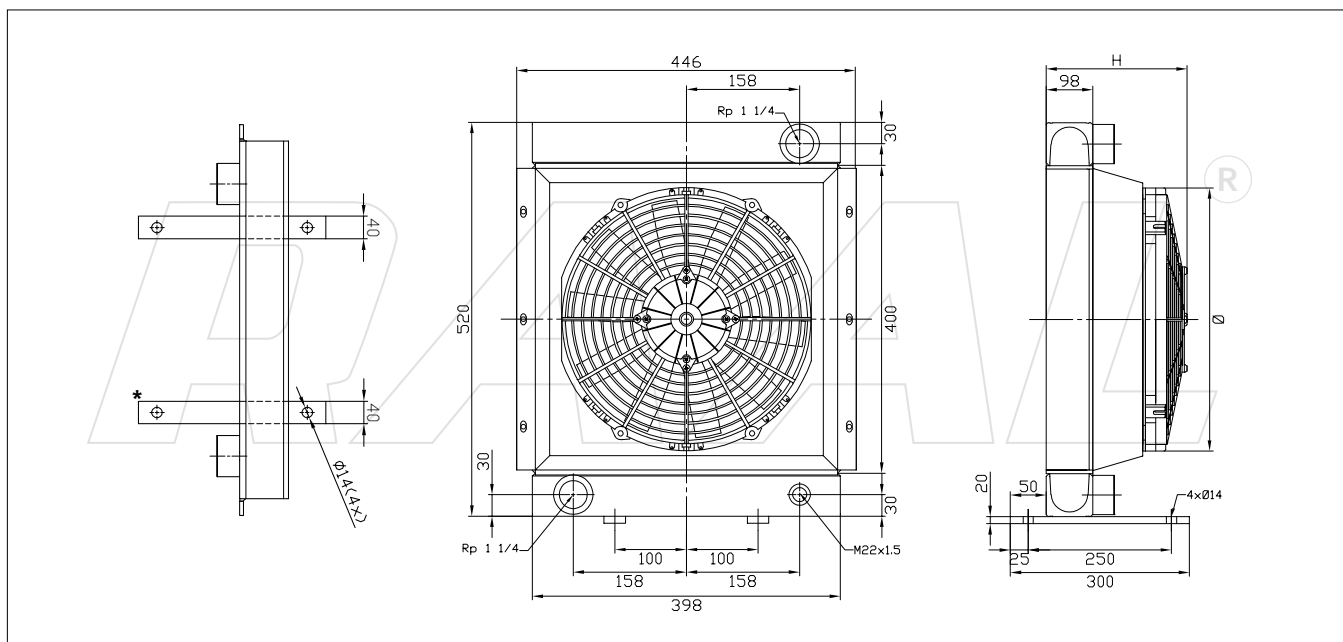
Maximum Range

Kw 14 : 30 lt

Kw 23 : 130 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



* Not removable feet

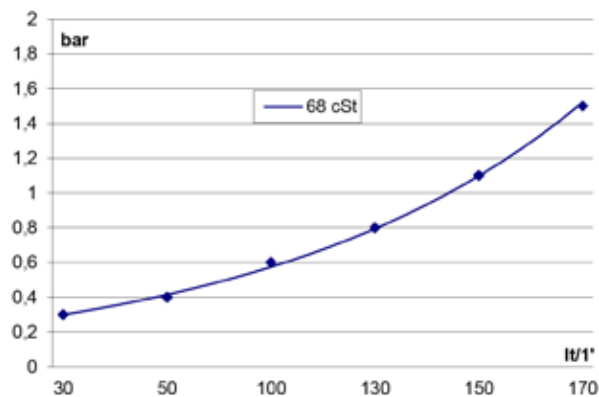
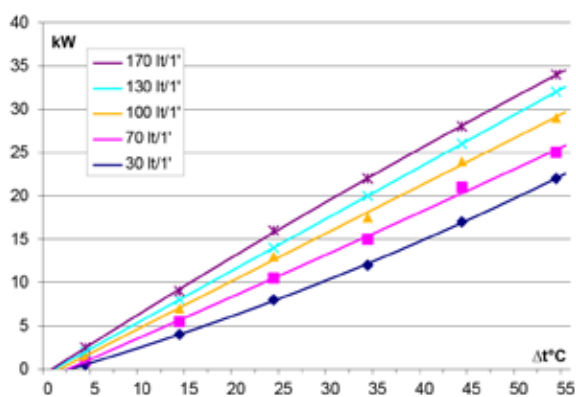
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m ³ /h	M.R. dm ³	Power Consumpt.
RUT105690000	UNCOVERED	98	-	-	14,70	-
RUT105690011	12V Suct.	265	305	1839	14,70	16,5 A
RUT105690012	12V Blow.	265	305	1736	14,70	14,9 A
RUT105690021	24V Suct.	265	305	2161	14,70	10,3 A
RUT105690022	24V Blow.	265	305	2050	14,70	9,1 A
RUT105690031	230V-50/60Hz Suct.	225	300	3745	14,70	1,55 A
RUT105690032	230V-50/60Hz Blow.	225	300	3745	14,70	1,55 A
RUT105690041	230/400V-50/60Hz 3FN Suct.	225	300	3350	14,70	0,48 A
RUT105690042	230/400V-50/60Hz 3FN Blow.	225	300	3350	14,70	0,48 A
RUT105690051	Pred. Hydraulic. Suct. (Supp. G2)	280	300	3080	14,70	0,41 kW
RUT105690052	Pred. Hydraulic. Blow. (Supp. G2)	280	300	3080	14,70	0,41 kW

Minimum Range

Kw 22 : 30 lt

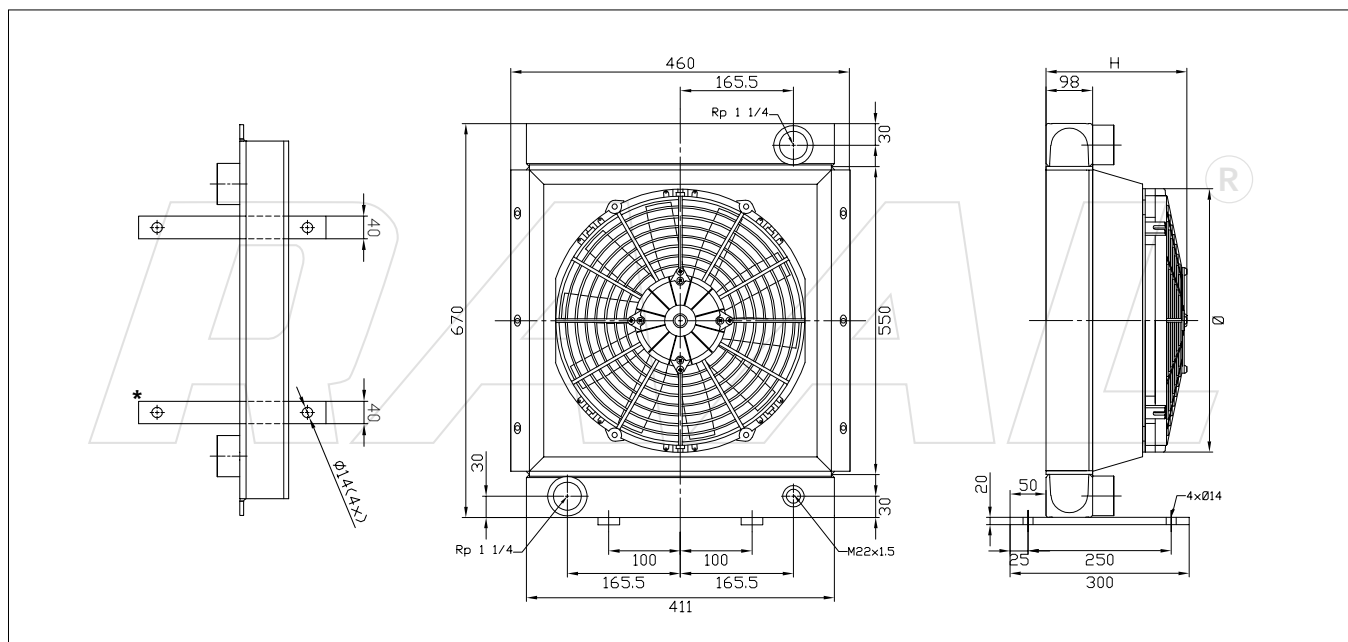
Maximum Range

Kw 34 : 170 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.

T 5



* Not removable feet

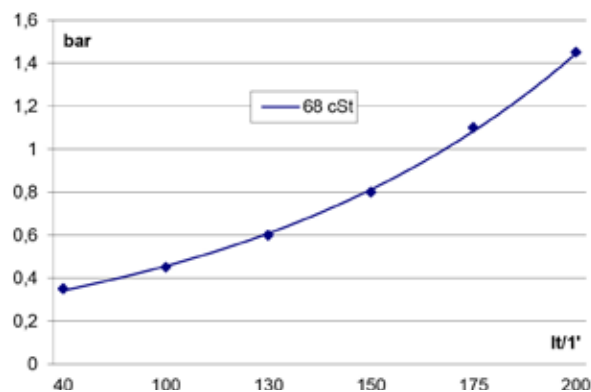
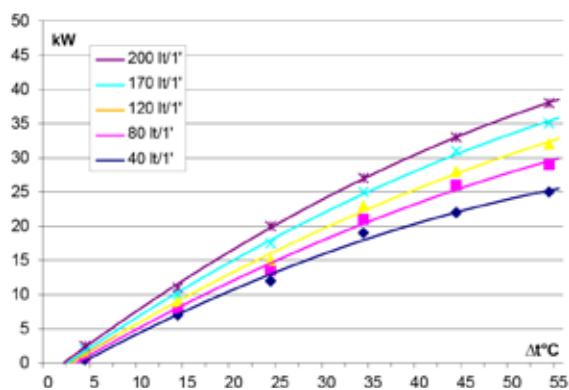
Product Code	Type of Setting	Overall H	Fan Ø	Fan Power m³/h	M.R. dm³	Power Consumpt.
RUT105700000	UNCOVERED	98	-	-	21,06	-
RUT105700011	12V Suct.	265	385	2212	21,06	16,0 A
RUT105700012	12V Blow.	265	385	2412	21,06	16,2 A
RUT105700021	24V Suct.	265	385	2577	21,06	9,3 A
RUT105700022	24V Blow.	265	385	2609	21,06	9,0 A
RUT105700031	230V-50/60Hz Suct.	270	400	4950	21,06	1,06 A
RUT105700032	230V-50/60Hz Blow.	270	400	4950	21,06	1,06 A
RUT105700041	230/400V-50/60Hz 3FN Suct.	270	400	4615	21,06	0,39 A
RUT105700042	230/400V-50/60Hz 3FN Blow.	270	400	4615	21,06	0,39 A
RUT105700051	Pred. Hydraulic. Suct. (Supp. G2)	285	400	7050	21,06	1,5 kW
RUT105700052	Pred. Hydraulic. Blow. (Supp. G2)	285	400	7050	21,06	1,5 kW

Minimum Range

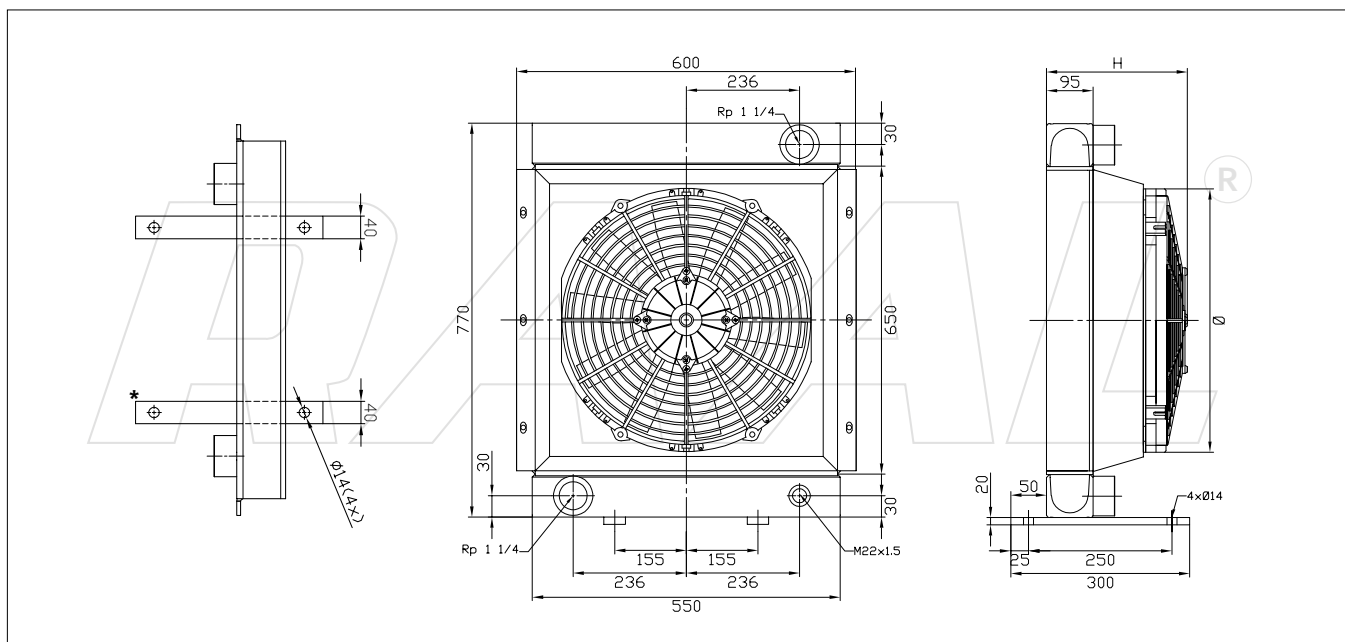
Maximum Range

Kw 25 : 40 lt

Kw 37 : 200 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



* Not removable feet

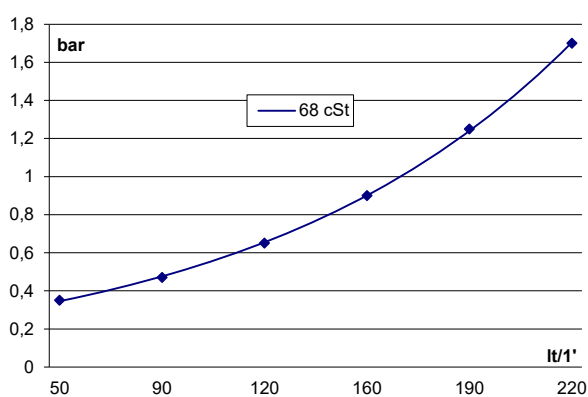
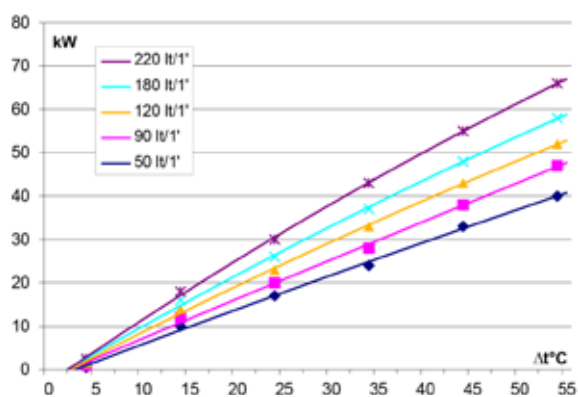
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RUT105710000	UNCOVERED	95	-	-	33,47	-
RUT105710211	12V Suct.	260	2 x 305	3678	33,47	33,0 A
RUT105710212	12V Blow.	260	2 x 305	3472	33,47	29,8 A
RUT105710221	24V Suct.	260	2 x 305	4322	33,47	20,6 A
RUT105710222	24V Blow.	260	2 x 305	4100	33,47	18,2 A
RUT105710031/32	230V-50/60Hz Suct./Blow.	310	500	9850	33,47	3,88 A
RUT105710231/32	230V-50/60Hz Suct./Blow.	225	2 x 300	6820	33,47	3,1 A
RUT105710041/42	230/400V-50/60Hz 3FN Suct./Blow.	310	500	9195	33,47	1,41 A
RUT105710241/42	230/400V-50/60Hz 3FN Suct./Blow.	225	2 x 300	6700	33,47	0,96 A
RUT105710051	Pred. Hydraulic. Suct. (Supp. G2)	305	500	13300	33,47	4,1 kW
RUT105710052	Pred. Hydraulic. Blow. (Supp. G2)	305	500	13300	33,47	4,1 kW

Minimum Range

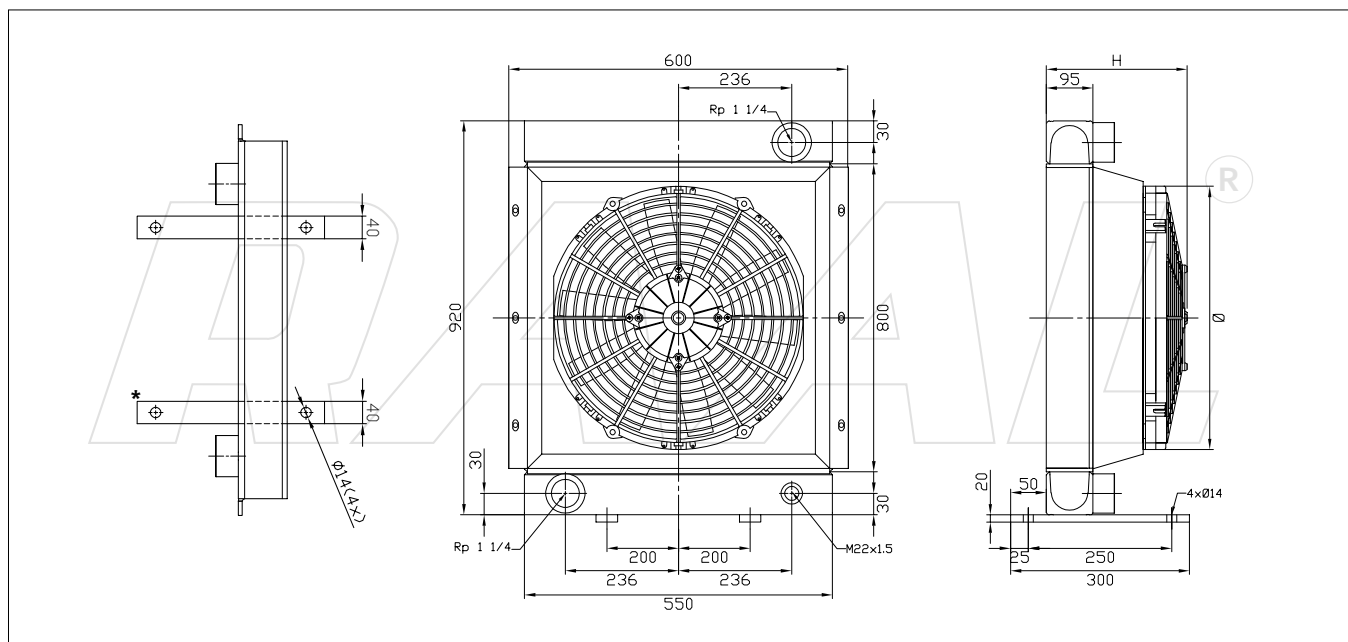
Maximum Range

Kw 40 : 50 lt

Kw 68 : 220 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



* Not removable feet

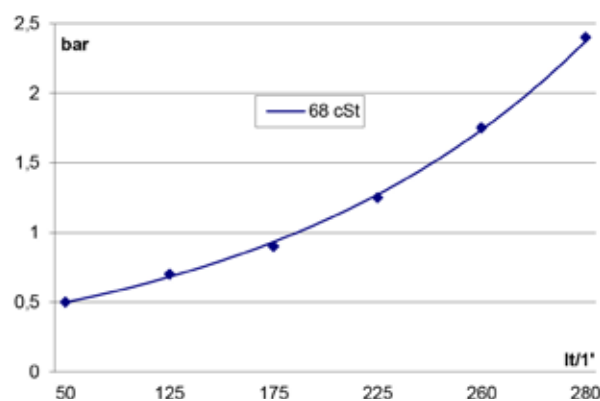
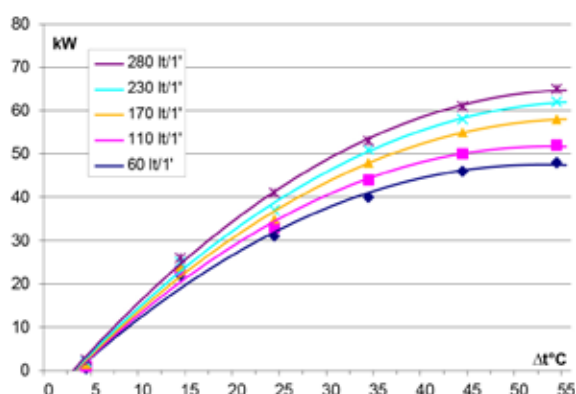
Product Code	Type of Setting	Overall H	Fan $\varnothing$	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RUT105730000	UNCOVERED	95	-	-	41,25	-
RUT105730211	12V Suct.	290	2 x 305	3678	41,25	33,0 A
RUT105730212	12V Blow.	290	2 x 305	3472	41,25	29,8 A
RUT105730221	24V Suct.	290	2 x 305	4322	41,25	20,6 A
RUT105730222	24V Blow.	290	2 x 305	4100	41,25	18,2 A
RUT105730031/32	230V-50/60Hz Suct./Blow.	310	500	9850	41,25	3,88 A
RUT105730231/32	230V-50/60Hz Suct./Blow.	255	2 x 300	6820	41,25	3,1 A
RUT105730041/42	230/400V-50/60Hz 3FN Suct./Blow.	310	500	9195	41,25	1,41 A
RUT105730241/42	230/400V-50/60Hz 3FN Suct./Blow.	255	2 x 300	6700	41,25	0,96 A
RUT105730051	Pred. Hydraulic. Suct. (Supp. G2)	305	500	13300	41,25	4,1 kW
RUT105730052	Pred. Hydraulic. Blow. (Supp. G2)	305	500	13300	41,25	4,1 kW

Minimum Range

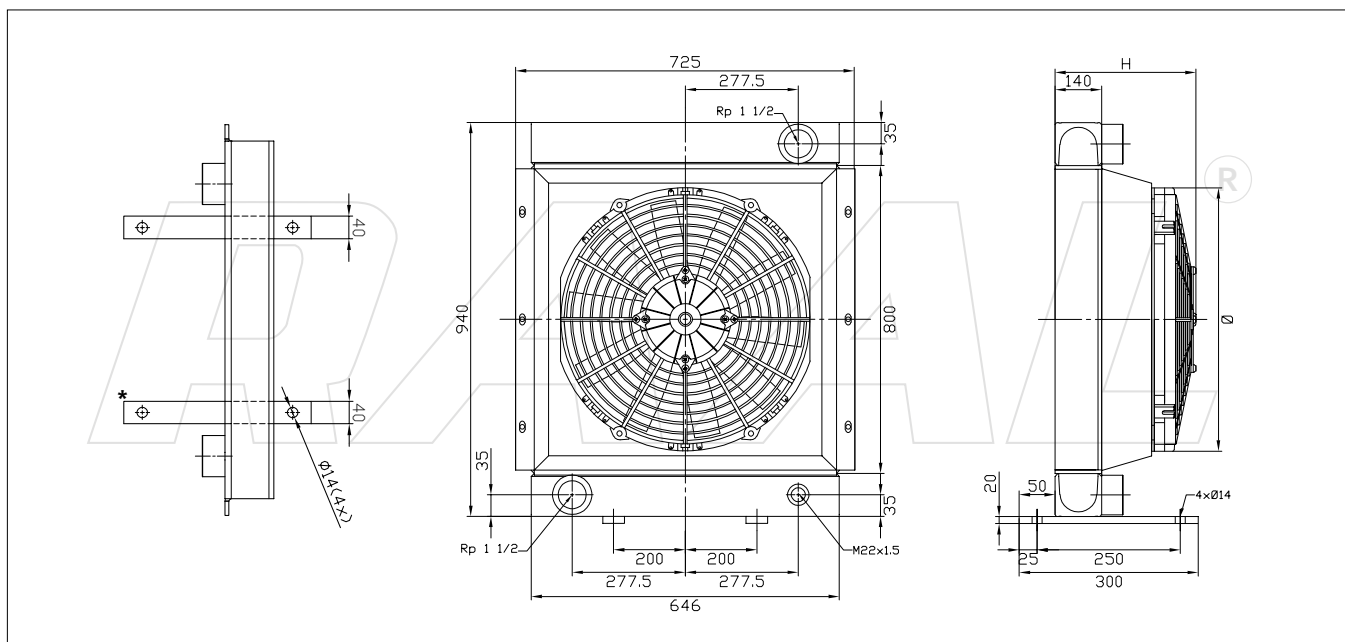
Maximum Range

Kw 48 : 60 lt

Kw 62 : 280 lt



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



* Not removable feet

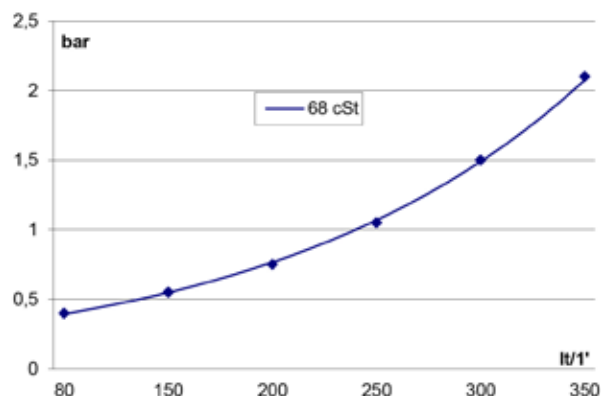
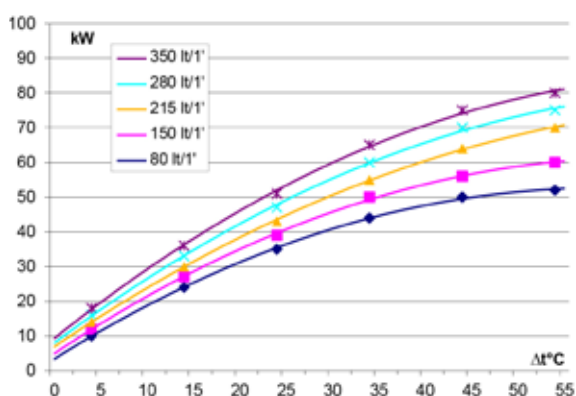
Product Code	Type of Setting	Overall H	Fan ϕ	Fan Power m^3/h	M.R. dm^3	Power Consumpt.
RUT105740000	UNCOVERED	140	-	-	59,85	-
RUT105740411	12V Suct.	335	4 x 305	7356	59,85	66,0 A
RUT105740412	12V Blow.	335	4 x 305	6944	59,85	59,6 A
RUT105740421	24V Suct.	335	4 x 305	8644	59,85	41,2 A
RUT105740422	24V Blow.	335	4 x 305	8200	59,85	36,4 A
RUT105740031/32	230V-50/60Hz Suct./Blow.	365	630	18000	59,85	3,5 A
RUT105740431/32	230V-50/60Hz Suct./Blow.	295	4 x 300	14980	59,85	6,2 A
RUT105740041/42	230/400V-50/60Hz 3FN Suct./Blow.	365	630	19000	59,85	1,29 A
RUT105740441/42	230/400V-50/60Hz 3FN Suct./Blow.	295	4 x 300	13400	59,85	1,92 A
RUT105740051	Pred. Hydraulic. Suct. (Supp. G2)	370	630	23600	59,85	7,4 kW
RUT105740052	Pred. Hydraulic. Blow. (Supp. G2)	370	630	23600	59,85	7,4 kW

Minimum Range

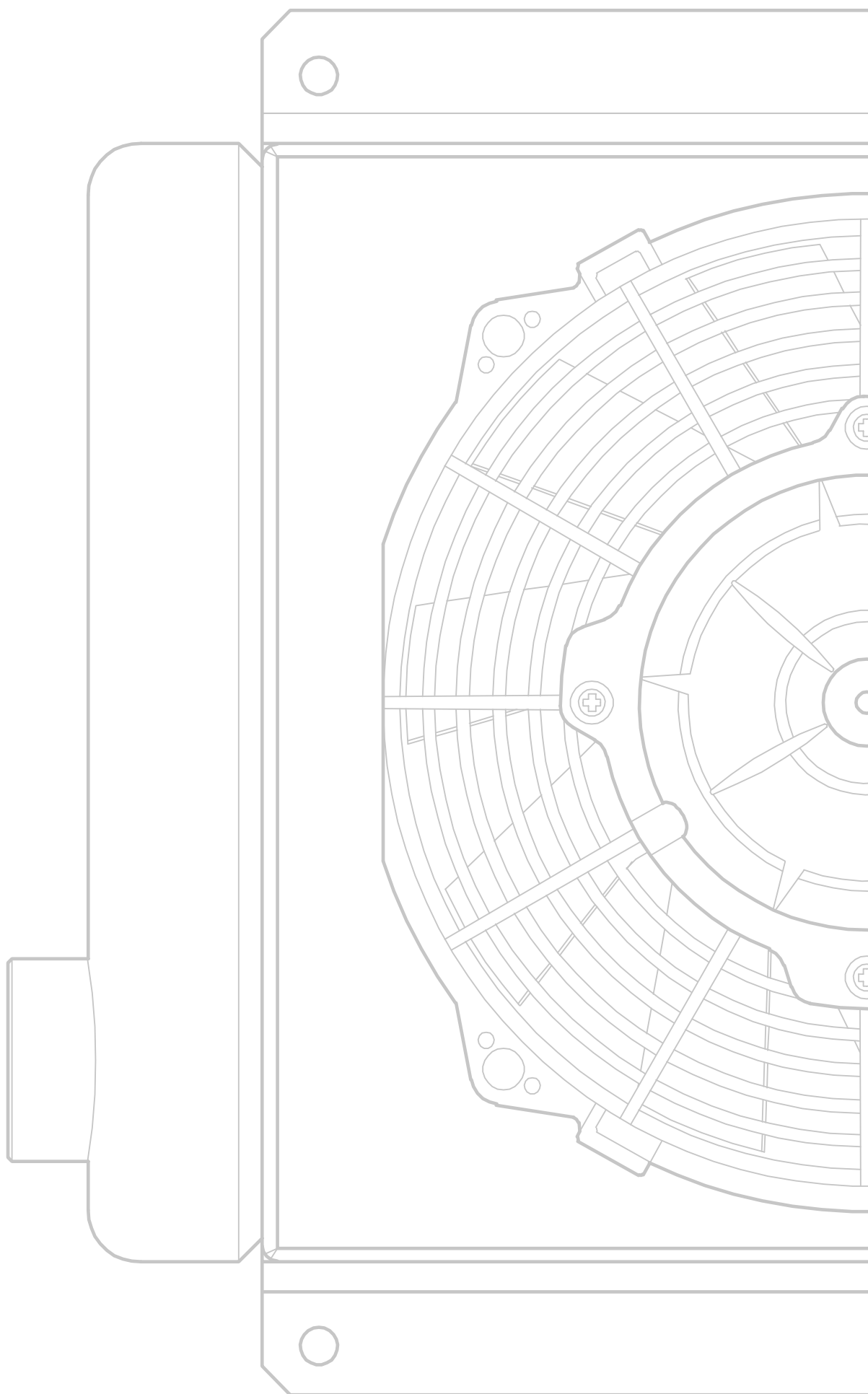
Maximum Range

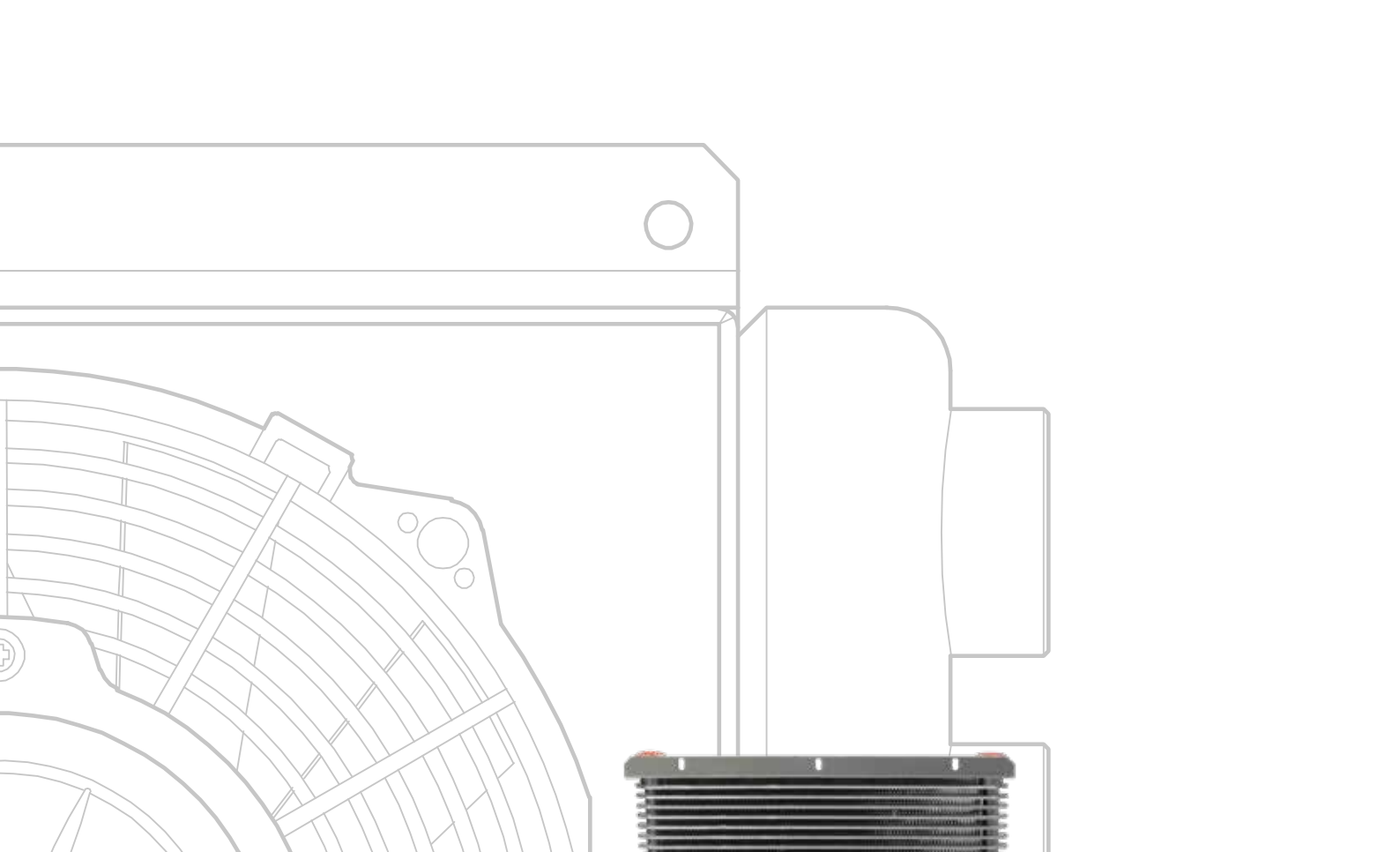
Kw 52 : 80 lt

Kw 80 : 350 lt

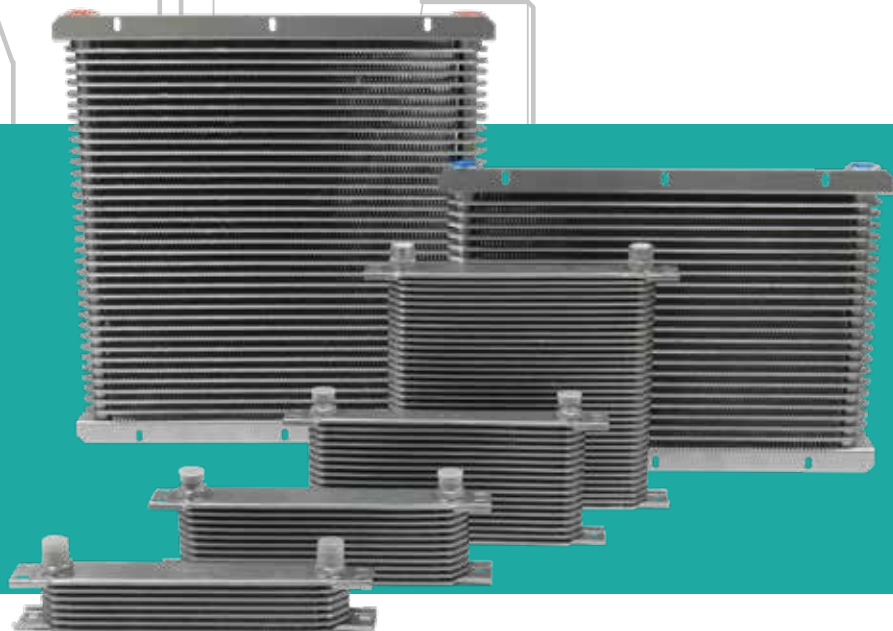


Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



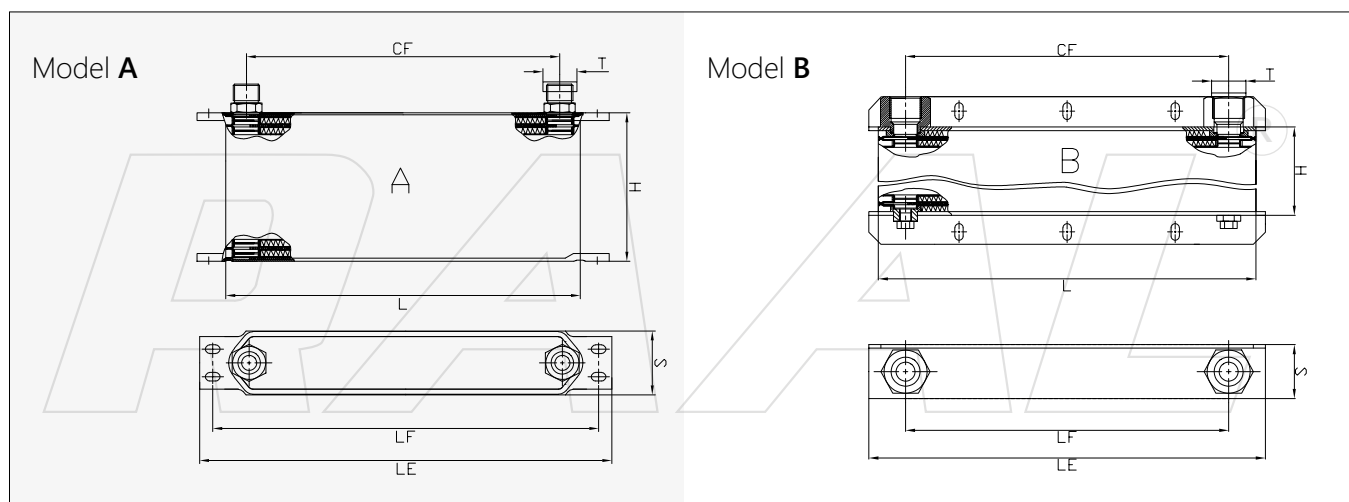


Coolers **SHELL Series**

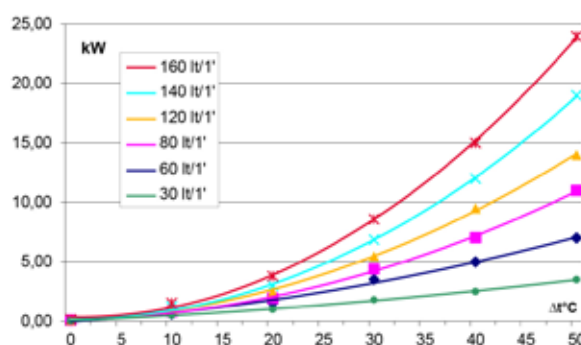


The heat exchangers of the **SHELL** series are entirely made in aluminum in Plates constructive system obtained by the vacuum brazing process. The heat exchangers of the **SHELL** series have been designed with the aim of having smaller products with excellent performance.

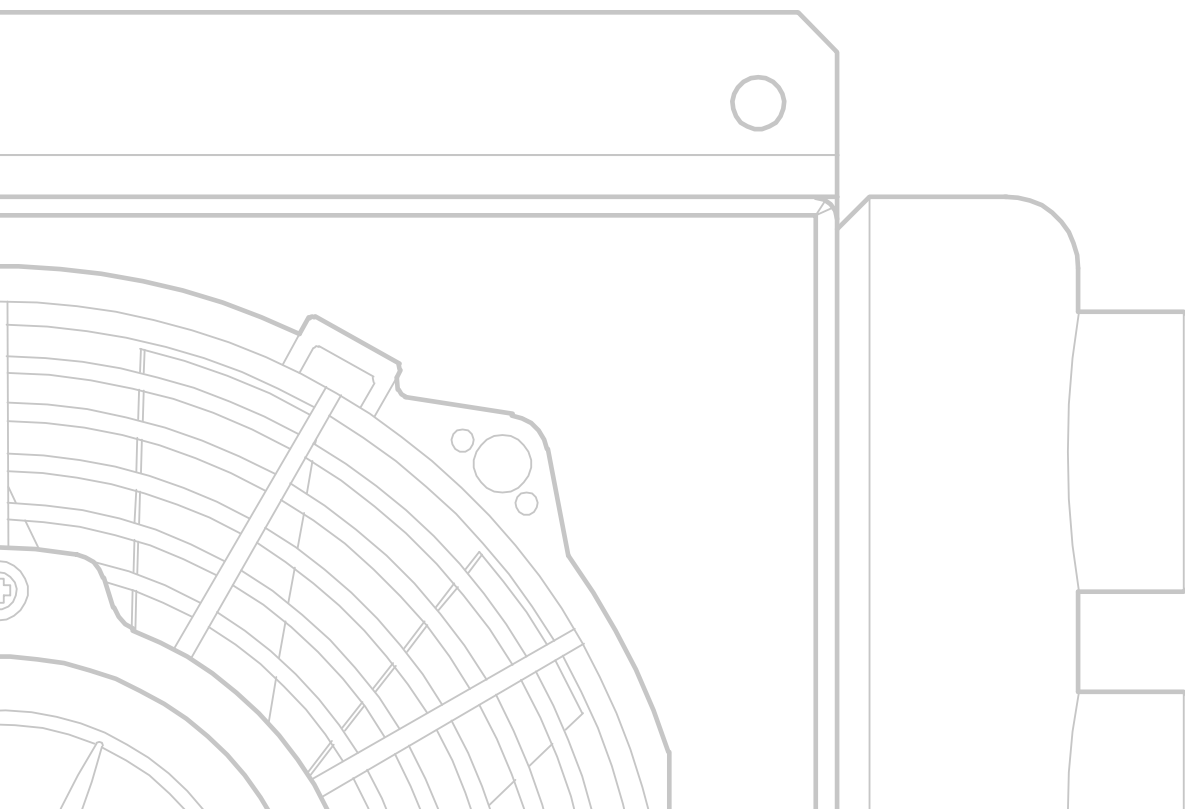
SHELL



Product Code	Plates	CF	H	L	LF	LE	S	T Connection	dm ³
SRU133630000	7	A 250	52	283	308	329	51	½ GAS M.	0,75
SRU117760000	11	A 250	80	283	308	329	51	½ GAS M.	1,18
SRU057460000	13	A 250	98	283	308	329	51	½ GAS M.	1,36
SRU232280000	13	A 250	102	283	308	329	51	3/8 GAS M.	1,43
SRU057470000	16	A 250	125	283	308	329	51	½ GAS M.	1,80
SRU117770000	17	A 250	129	283	308	329	51	½ GAS M.	1,86
SRU057480000	19	A 250	144	283	308	329	51	½ GAS M.	2,08
SRU080760000	19	A 250	146	283	308	329	51	M22X1,5 F.	2,74
SRU117780000	20	A 250	150	283	308	329	51	½ GAS M.	2,19
SRU170890000	21	A 250	220	283	308	329	51	½ GAS M.	3,18
SRU066100000	25	A 250	192	283	308	329	51	½ GAS M.	2,74
SRU117790000	27	A 250	200	283	308	329	51	½ GAS M.	2,89
SRU057500000	34	A 250	265	283	308	329	51	¾ GAS M.	3,82
SRU072510000	8	A 275	59	308	333	354	51	M22X1,5 M.	0,93
SRU072520000	11	A 275	83	308	333	354	51	M22X1,5 M.	1,30
SRU072530000	13	A 275	98	308	333	354	51	M22X1,5 M.	1,51
SRU072540000	16	A 275	123	308	333	354	51	M30X1,5 M.	1,93
SRU072550000	19	A 275	148	308	333	354	51	M30X1,5 M.	2,32
SRU072560000	25	A 275	194	308	333	354	51	M30X1,5 M.	3,05
SRU072570000	31	A 275	241	308	333	354	51	M30X1,5 M.	3,79
SRU149740000	25	A 300	194	333	358	379	51	½ GAS M.	3,29
SRU184830000	11	A 350	122	383	408	429	51	½ GAS M.	2,38
SRU072580000	22	B 439	300	484	-	484	45	¾ GAS F.	6,53
SRU072590000	34	B 439	460	484	-	484	45	¾ GAS F.	10,02



Dimensions and technical characteristics must be considered as indicative because the standard products are constantly evolving.



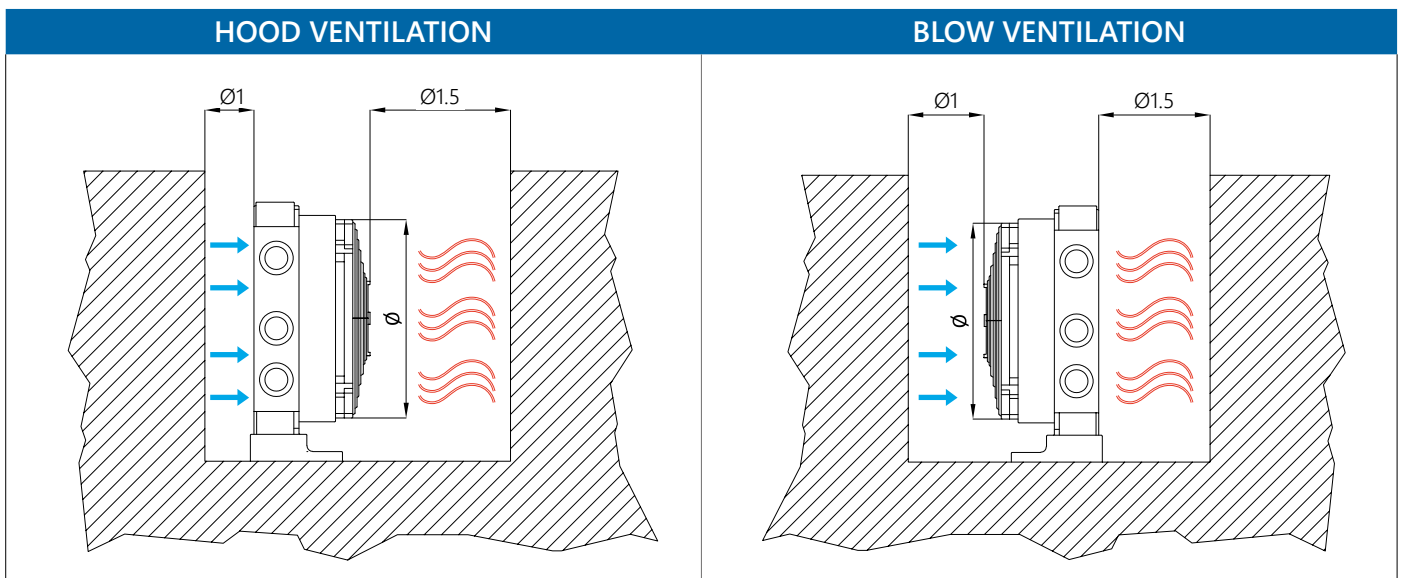
Proper Installation



Proper Installation

Proper Installation

For a correct and functional installation, the positioning of exchanger must allow the type of ventilation (**inflow** or **outflow**). The exchanger can be mounted in vertical or horizontal position, maintaining the minimum distance from the wall to ensure a natural inflow and outflow of cooling air (as in figure).



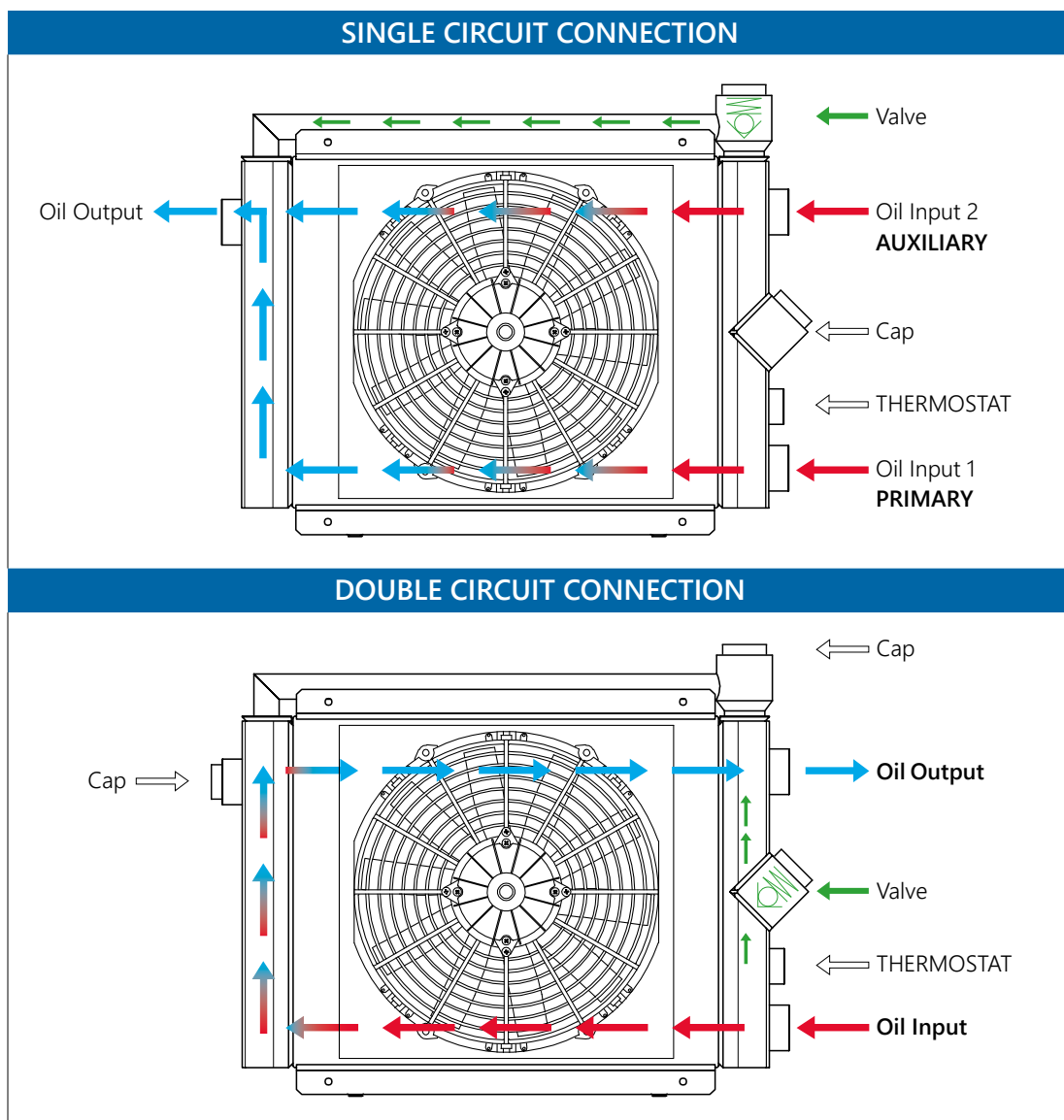
Maintenance

Clean air side - Use compressed air to clean exchanger's core. Make sure that the direction of the air flow is parallel to the fins to avoid damaging them. If the obstruction of the exchanger is caused by an accumulation of oil or grease, the cleaning can be carried out with a steam or hot water's jet. During these operations, the electric motor must be protected.

Proper Installation

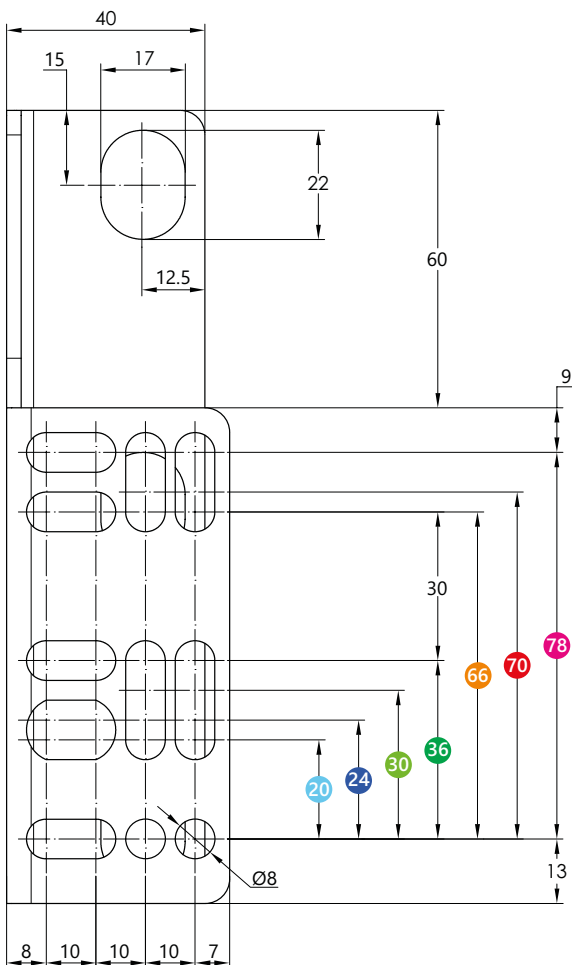
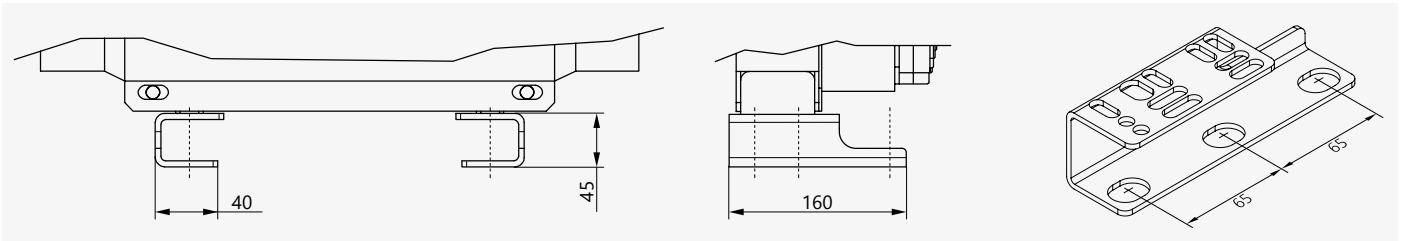
Utilisation with BY-PASS valve

RAAL exchangers, are perfectly suited to all types of hydraulic (**OLEODYNAMIC**) circuits and are normally installed on the return line. If this is not possible, in order to prevent over pressures, which can undermine the exchanger, we recommend utilisation of a heat exchanger of our **BY-PASS** line.



Fixing and Installation

As you can see, the correct installation of the fixing feet is very simple because the brackets are designed for an indifferent right or left positioning. During installation, this system allows an extreme adaptability to the chassis or to the equipment where you want to install your **RAAL ITALY** exchanger. For a correct and functional installation, we recommend utilisation of special anti-vibration support.

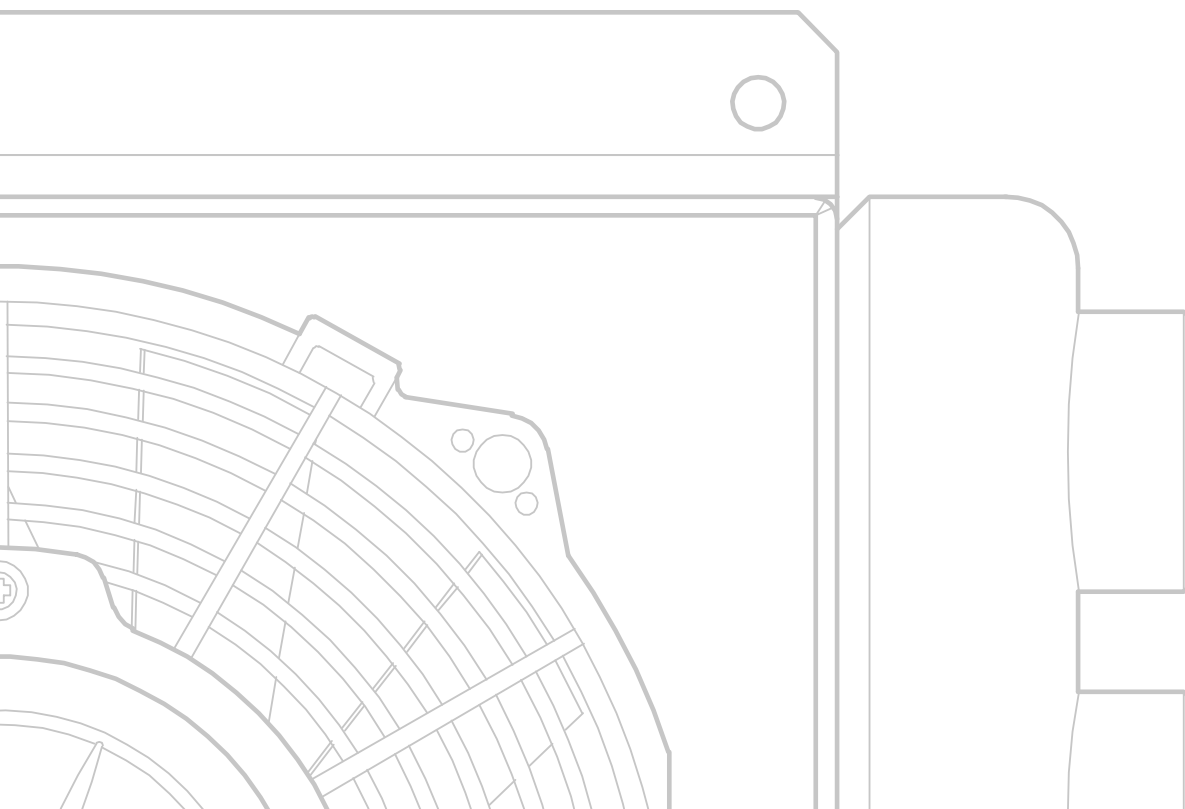


The **BRACKET** realized for **RAAL ITALY** exchangers, in galvanized sheet, is unique and it has been studied specifically to be unified on all models.

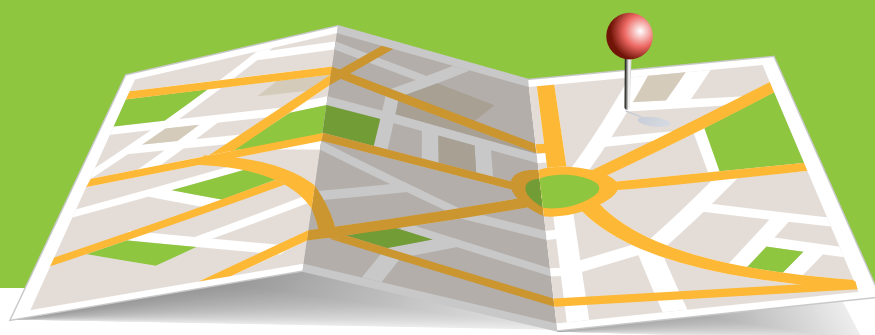
Interaxe [mm]	GR Series	By-Pass Series	VT Series
20	GRS 25 GRS 100L	-	-
24	GRS/D 50 GRS/D 100 GRS/D 120 GRS/D 130	GRS/D By-Pass 50 GRS/D By-Pass 100 GRS/D By-Pass 130	VTs/D 50 VTs/D 60
30	GRS/D 80	-	-
36	GRS/D 150 GRS/D 200 GRS/D 300	GRS/D By-Pass 150 GRS/D By-Pass 200 GRS/D By-Pass 300	VTs/D 150 VTs/D 180 VTs/D 210
66	GRS/D 500	GRS/D By-Pass 500	-
70	GRS/D 700	-	-
78	-	-	VTs/D 210
Kit brackets			
cod. STU000002000			

[illegible]

[illegible]



How To Find Us



How To Find Us



Street	Giovanni Finati 53
P. Code	44124 Ferrara (IT)
Teleph.	+39 0532 773637
Fax	+39 0532 776476
Web	www.raal.it
mail	info@raal.it



Sale Conditions

APPLICABILITY:

All the relationships between the company and its customers are governed by these conditions of sale. The customer, the contribution of with every order, unconditionally accepted and agrees this conditions. Any exceptions must be previously agreed and accepted in writing by the Company.

PRICES:

The prices quoted by the company with its **PRICE LIST** are subject to some variation and / or change without notice. The prices are for goods on ex-stock of the Company. Any liability of the company decade since the goods leave the warehouse.

OFFERS:

The prices quoted by the Company's **OFFER** are valid until expiration date reported on it. After that period, the Company's commitment to keep the price proposed will end.

DELIVERY OF THE GOODS:

Delivery of the goods are sold ex departure warehouse, any costs of special packaging will be charged at total cost. In the absence of specific provisions, the Company will arrange all 'forwarding of the goods, Franco departure warehouse with the means they consider appropriate.

TERMS OF DELIVERY:

The availability of the goods in the warehouse means subject to prior sale. The delivery times are indicative, therefore delays cannot give right to cancellation of orders, much less claims.

PAYMENTS:

Previously agreed, the **PAYMENTS** must be made on time and in the ways agreed. Any delay in payment shall entitle the company to request the right to expenses and interest relating. The Company, in case of default by the customer, reserves the right to terminate any supplies without any notice, to require the payment of the outstanding credit even if not yet expired and to take any action for the complete recovery of the credit.

RETURN OF GOODS:

In the event that it is necessary to return goods to the Company, the customer must ask for a written permission, must follow the instructions given in the guidance notes. Goods returned to the Company without authorization will be withdrawn. On the material, at the sole discretion of the company, the guarantee will be applied in accordance with regulations, stated in a separate document prepared by the Company.

TECHNICAL AND DESCRIPTIONS:

Is forbidden to anyone, reproduce in whole or in part drawings, descriptions and other set of price lists, catalogues and in general of all the advertising material published by the Company.

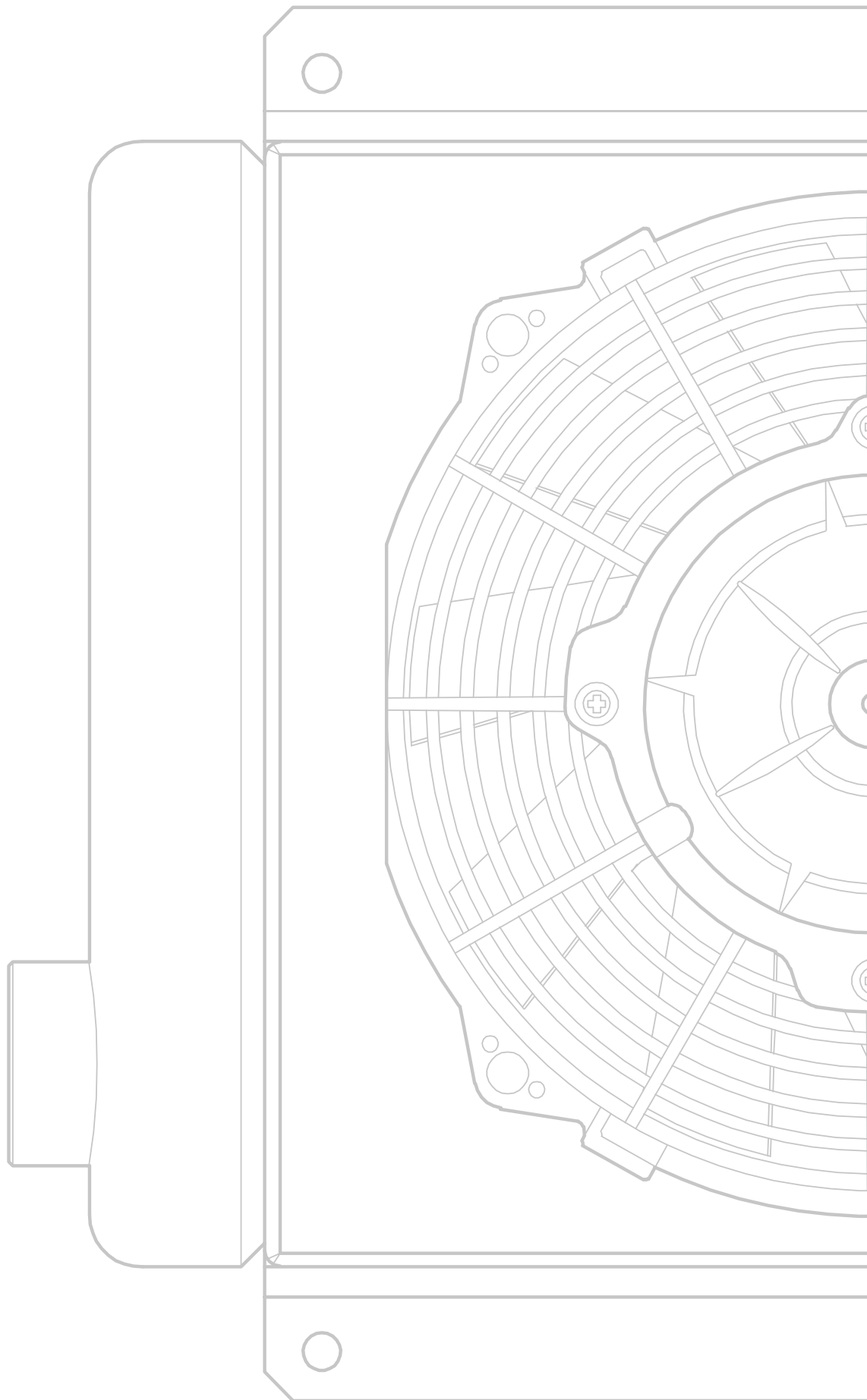
The publication of catalogues and price lists, in order to shape, exposure, layout or other, similar to what proves published by the Company and are therefore able to confuse the public as to the real origin of the products offered by the Company, will be prosecuted according to the law. Drawings and directions given on the material published by the Company shall be understood as indicative and not binding, the Company reserves the right to make modifications without notice.

COURTS:

For matters not governed by this terms, will be worth the provisions of Italian law. The court of Ferrara shall have exclusive jurisdiction over any legal disputes relating to the terms and conditions mentioned above.

Our Certificates





RAAL[®]
Italia complete cooling solutions

