

Heating Units

Warmex



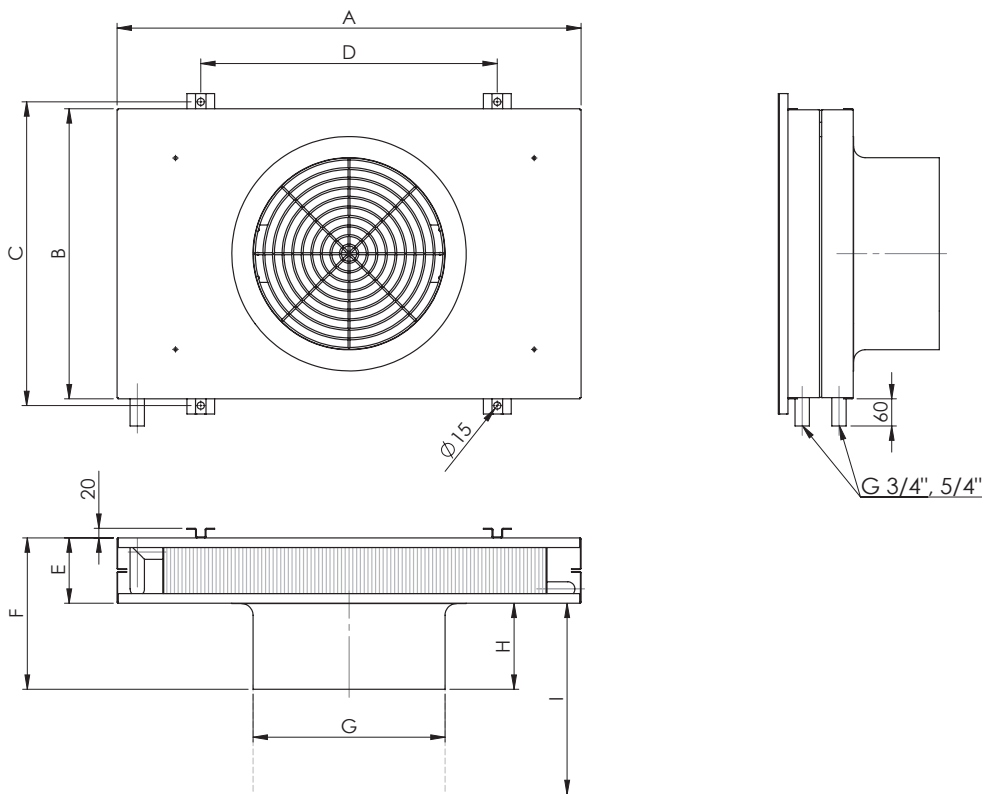
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Use

Heating unit Warmex is intended for heating up the air in commercial and industrial places as well as in large storage areas. Four capacity types cover the need to heat up various spaces. Heating capacity 6-60 kW.

TECHNICAL DESCRIPTION

- Self-contained light-weight construction of galvanized metal plate powder coated RAL 9010.
- Ceiling mounting only.
- Easy access for maintenance and cleaning.
- Highly efficient and maintenance-free fans, dynamically and statically balanced with over inbuilt thermal overload protection.
- High-performance 3 - row Cu/Al coils for max 90°C/1,6 MPa, with a capacity reserve.
- Integrated ceiling suspensions (drop rods).
- Extension collar for improved efficiency in higher installations on demand.



Technical Data	WARMEX			WARMEX			WARMEX		
	0-A	0-A	0-A	1-A	1-A	1-A	2-A	2-A	2-A
	MAX	MID	MIN	MAX	MID	MIN	MAX	MID	MIN
Air Flow [m ³ /h]	1500	1325	825	2300	1925	1050	4825	4150	3150
Heating Capacity 80/60°C [T1=15°C] [kW]	13,4	12,5	9,3	22,4	20,1	13,6	46,8	42,7	35,9
60/40°C [T1=0°C] [kW]	11,7	10,9	8,2	19,8	17,8	12,1	41,7	38	32,1
50/35°C [T1=10°C] [kW]	7,3	6,8	5,1	12,6	11,3	7,7	26,6	24,3	20,5
Coil connection [°]	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	5/4"	5/4"	5/4"
rows	3	3	3	3	3	3	3	3	3
max. medium temperature [°C]	90	90	90	90	90	90	90	90	90
max. working pressure [MPa]	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6
Fan voltage [V]	230	230	230	230	230	230	230	230	230
power input [W]	165	165	165	165	165	165	390	390	390
power current [A]	0,9	0,9	0,9	0,9	0,9	0,9	2,1	2,1	2,1
Protection class	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Noise Level [dB(A)]*	57	53	39	57	51	40	61	57	50
Weight [kg]	21	21	21	25	25	25	36	36	36

Dimensions	WARMEX 0	WARMEX 1	WARMEX 2
„A“ [mm]	650	970	1170
„B“ [mm]	542	607	707
„C“ [mm]	570	635	735
„D“ [mm]	308	620	820
„E“ [mm]	111	137	215
„F“ [mm]	236	317	415
„G“ [mm]	363	402	502
„H“ [mm]	125	90	90
„I“ [mm]	-	350	450

* - acoustic pressure measured in the distance of 5m from the unit

MAX: 230V / MID 160V / 120V

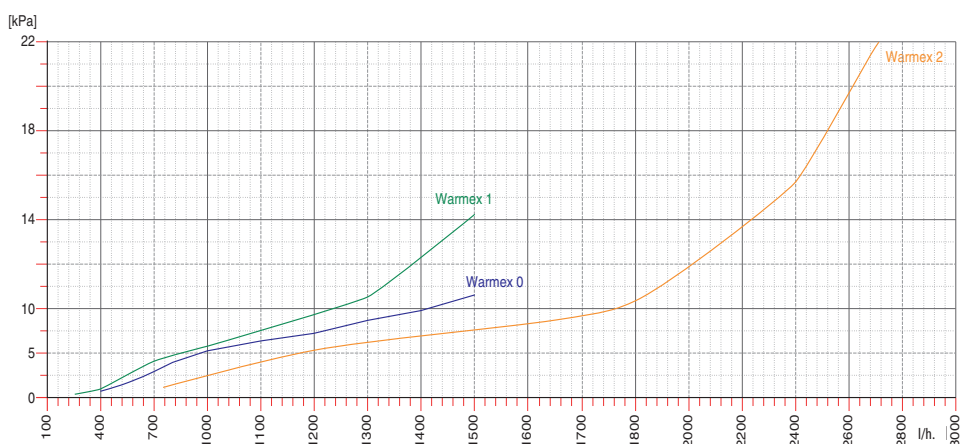
Calculation Data Of The Coils

HEATING CAPACITY		WARMEX 0A, Q m³/h - MAX			WARMEX 0A, Q m³/h - MID			WARMEX 0A, Q m³/h - MIN		
Medium temperature	t _i	Q	T _a	Q _m	Q	T _a	Q _m	Q	T _a	Q _m
	[°C]	[kW]	[°C]	[L/hod.]	[kW]	[°C]	[L/hod.]	[kW]	[°C]	[L/hod.]
70/50°C	-10	17,3	24	720	16,1	25,8	684	11,9	32,7	504
	0	14,6	28,7	612	13,6	30,2	576	10,1	36,1	432
	10	11,9	33,4	504	11,1	34,6	468	8,3	39,6	324
	15	10,5	35,7	432	9,8	36,8	396	7,4	41,3	288
60/40°C	-10	14,4	18,3	612	13,4	19,8	540	10	25,7	396
	0	11,7	23	468	10,9	24,2	468	8,2	29,2	324
	10	9	27,7	360	8,4	28,7	360	6,3	32,6	252
	15	7,7	30	324	7,1	30,9	288	5,4	34,3	216
40/30°C	-10	11,1	11,8	936	10,3	12,8	864	7,6	17,2	648
	0	8,4	16,5	720	7,8	17,3	648	5,8	20,7	468
	10	5,7	21,2	468	5,3	21,8	432	4	24,2	324
	15	4,3	23,5	360	4	24	324	3,1	25,9	252

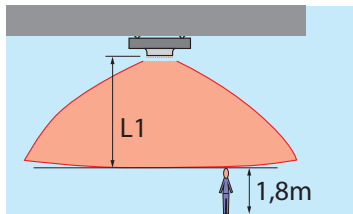
HEATING CAPACITY		WARMEX 1A, Q m³/h - MAX			WARMEX 1A, Q m³/h - MID			WARMEX 1A, Q m³/h - MIN		
Medium temperature	t _i	Q	T _a	Q _m	Q	T _a	Q _m	Q	T _a	Q _m
	[°C]	[kW]	[°C]	[L/hod.]	[kW]	[°C]	[L/hod.]	[kW]	[°C]	[L/hod.]
70/50°C	-10	28,7	26,7	1224	25,7	29,3	1080	17,3	38,6	720
	0	24,3	31,2	1044	21,8	33,5	936	14,7	41,4	612
	10	20	35,7	828	18	37,5	756	12,2	44,3	504
	15	17,9	37,9	756	16	39,6	684	10,9	45,7	468
60/40°C	-10	24,2	21	1008	21,7	23,2	900	14,6	31,1	612
	0	19,8	25,4	828	17,8	27,3	756	12,1	34	504
	10	15,5	29,9	648	13,9	31,4	576	9,5	36,8	396
	15	13,3	32,1	540	12	33,4	504	8,2	38,1	324
40/30°C	-10	18,3	13,5	1548	16,4	15,1	1404	11	21	936
	0	14	18	1188	12,6	19,3	1080	8,5	23,9	720
	10	9,7	22,5	828	8,7	23,4	720	6	26,7	504
	15	7,6	24,7	648	6,8	25,4	576	4,7	28,1	396

HEATING CAPACITY		WARMEX2A, Q m³/h - MAX			WARMEX 2A, Q m³/h - MID			WARMEX 2A, Q m³/h - MIN		
Medium temperature	t _i	Q	T _a	Q _m	Q	T _a	Q _m	Q	T _a	Q _m
	[°C]	[kW]	[°C]	[L/hod.]	[kW]	[°C]	[L/hod.]	[kW]	[°C]	[L/hod.]
70/50°C	-10	59,8	26,6	2556	54,5	28,8	2340	45,8	32,9	1944
	0	50,9	31,1	2160	46,5	33	1980	39,1	36,6	1656
	10	42	35,7	1800	38,3	37,2	1620	32,3	40,2	1368
	15	37,5	37,9	1584	34,3	39,4	1440	28,9	42,1	1224
60/40°C	-10	50,6	20,9	2160	46,1	22,8	1980	38,8	26,3	1656
	0	41,7	25,5	1764	38	27	1620	32,1	30	1368
	10	32,7	30	1404	29,9	31,2	1260	25,2	33,6	1080
	15	28,2	32,2	1188	25,8	33,3	1080	21,8	35,4	936
40/30°C	-10	38,3	13,4	3276	34,9	14,8	2988	29,2	17,4	2484
	0	29,4	18	2520	26,8	19,1	2304	22,5	21,1	1908
	10	20,5	22,5	1764	18,7	23,3	1584	15,8	24,8	1332
	15	16	24,8	1368	14,7	25,4	1260	12,4	26,6	1044

COIL PRESSURE LOSS DIAGRAM



Airflow Coverage



Warmex

TYP	0	1	2
L1* [m]	2,5	4,8	7,7

*Airflow coverage calculated for $T_r=18^\circ\text{C}$, $T_s=50/30^\circ\text{C}$
 *at 0,2 m/s in 1,8 m above the floor

Controller O2, O3, O5, O7

Speed control without external or door contact. (Only O type).

Supply voltage: 230V, 50/60Hz
 Degree of protection: IP 22

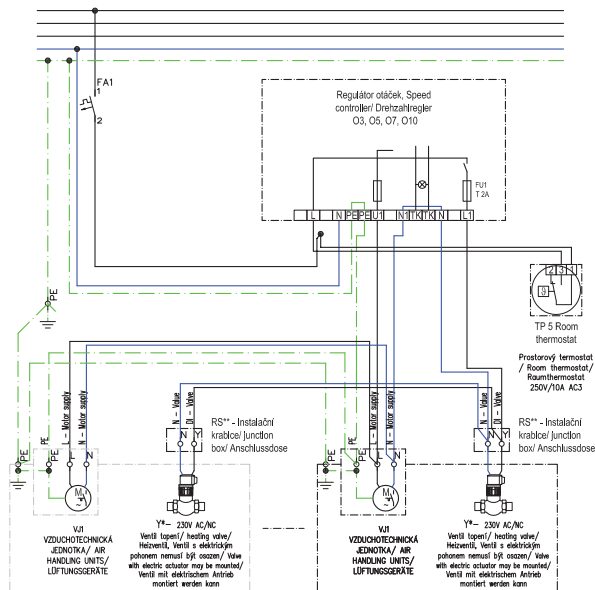
version 230V O2, O3, O5, O7
 - voltage regulator 0-1-2-3-4-5
 Dimensions O2-O3 (š*v*h) - 90*175*96mm
 Dimensions O5-O7 (š*v*h) - 123*240*125mm



O5

Examples of O2 - O7 controller wiring

Unit control with room thermostat

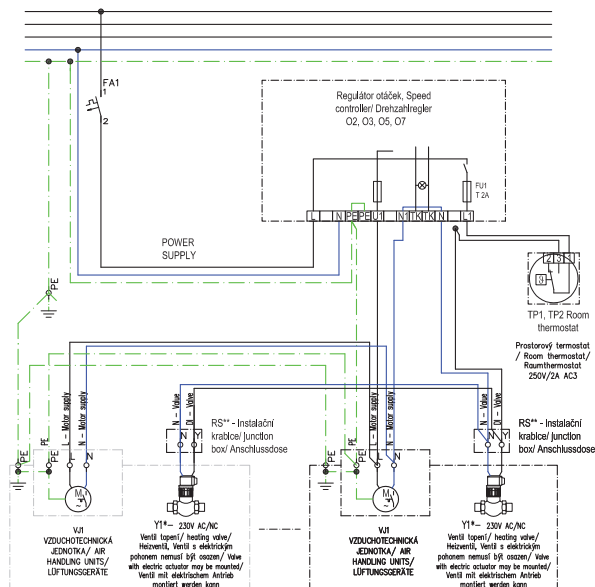


- 2-way or 3-way valves for outlet room temperature regulation. Valves with thermostatic or electro-thermal head available.

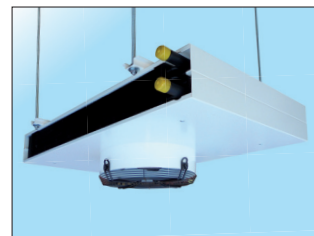
- High-performance fans are equipped with inbuilt thermal overload protection. Fan speed can be regulated by our speed switches.

- The unit can be delivered with drop rods or installed directly under the ceiling. Airflow coverage can be increased by using the extension collar accessories.

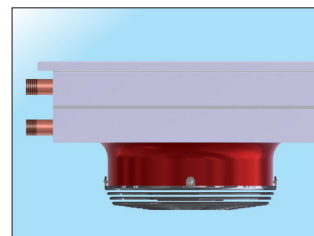
Electrothermic valve control with the room thermostat



- Unit is equipped with the 3-row Cu/Al coils for max 90°C/1,6 MPa, with a capacity reserve. Optimal fin spacing enables easy maintenance.



- Due to increased fan efficiency and noise reduction the units Warmex are fitted with the fan diffuser. This version fully complies ERP 2015.



Representation: