

TROPIC



Featuring attractive design of the housing made of high quality plastics, the TROPIC heating unit finds application for heating spaces where the heating units should match modern space interior. The unit can be installed in horizontal (ceiling mounting) or vertical (wall mounting) position. A bleeder valve allows bleeding of the unit in either position.

INTENDED USE

The TROPIC heating units find application for heating spaces, like:

- shopping centres
- discos
- fashion houses
- churches
- sports and entertainment facilities
- car showrooms

and in other typical places, like warehouses, shop floors, job shops, greenhouses and the like.

UNIT DESCRIPTION

TROPIC heating unit is available in two sizes, with single- or double-row metal louvre heaters.

The unit incorporates:

- housing made of high quality plastics
- high efficiency maintenance-free axial-flow fans with profiled aluminum blades
- highly efficient metal louvre heater

OPERATING CONDITIONS

The unit's housing and finned tube heaters are designed for operation with heating medium temperature up to 110°C. The relative humidity and dust load of the air should not exceed 95% and 3 mg/cu.m., respectively.

DESIGNATIONS

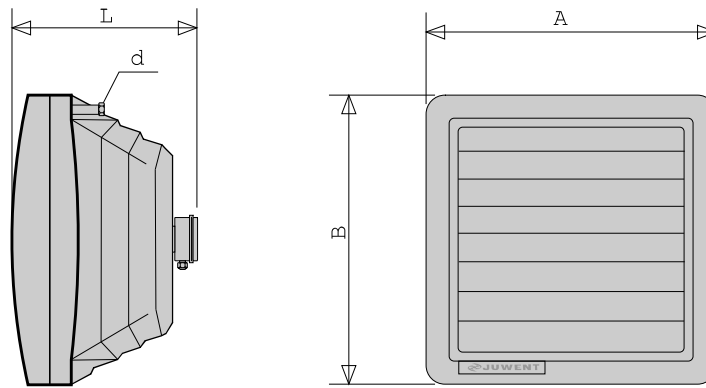
Heating unit

TROPIC - 1 - II

Size 1; 2

Number of heater rows I; II

TECHNICAL DATA

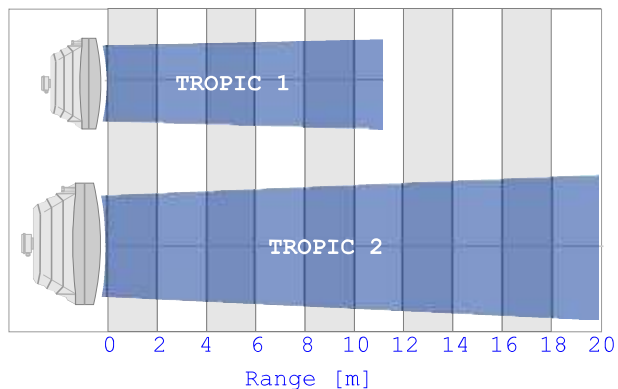


Unit type	TROPIC-1						TROPIC-2						
Basic dimensions													
A [mm]	560						690						
B [mm]	520						670						
L [mm]	380						480						
d	1/2"						3/4"						
Weight [kg]	21						36						
Fan specifications													
Voltage [V]	230						230						
Motor power [kW]	0,13						0,61						
Current [A]	0,59						2,8						
Revolutrions [rpm]	1400						1310						
Protection class IP	54						54						
Insulation class	F						F						
Oper. temp. [°C]	to +70						to +60						
Thermal power, air flow, resistance of water flow													
Air flow [m ³ /h]	2100			2000			5600			5300			
Number of heater rows	I			II			I			II			
Water temp. [°C]	Inflow air temp. [°C]	Thermal power [kW], outflow air temperature [°C] and resistance of water flow [kPa]											
		kW	°C	kPa	kW	°C	kPa	kW	°C	kPa	kW	°C	kPa
90/70	0	13,6	18	3,1	25,6	36	22,0	36,5	18	23,7	60,5	32	25,9
	10	11,5	25	2,2	21,7	41	16,2	30,8	26	17,0	51,2	37	18,0
	20	9,5	33	1,5	17,9	47	11,0	25,4	33	11,5	42,3	44	12,5
80/60	0	11,6	15	2,3	21,9	31	16,9	31,0	15	17,1	51,6	26	18,1
	10	9,5	23	1,5	18,1	36	10,4	25,5	23	11,6	42,7	33	13,5
	20	7,6	30	1,1	14,4	42	7,4	20,3	31	7,4	34,1	39	8,0
70/50	0	9,6	12	1,5	18,3	25	10,4	25,6	12	11,7	43,0	22	13,4
	10	7,6	20	1,2	14,6	31	7,3	20,4	20	7,4	34,3	28	7,9
	20	5,7	28	1,0	11,1	37	4,2	15,4	28	4,2	26,0	34	4,7
60/40	0	7,7	10	1,0	14,7	21	7,4	20,5	10	7,5	34,6	18	8,0
	10	5,7	17	0,9	11,2	26	4,3	15,4	18	4,3	26,2	24	5,1
	20	4,0	25	0,8	7,8	32	2,1	10,6	25	2,0	18,2	30	2,3
Unit noise level													
Noise level [dB(A)]	54*						60**						

* For unit size 1, the noise level is defined as the acoustic pressure at 5 m distance, taking dispersion factor of the room A=50m² and the directivity factor Q=2 into account.

** For unit size 2, the noise level is defined as the acoustic pressure at 5 m distance, taking dispersion factor of the room A=100m² and the directivity factor Q=2 into account.

Air stream range (wall mounted units)



The given above blowing ranges are for maximum velocity in the axis of stream = 0,5 m/s.
Ceiling mounted units size 1 can be installed at heights from 3 up to 7 m, depending on the louvers arrangement.
Ceiling mounted units size 2 can be installed at heights from 4 up to 11 m, depending on the louvers arrangement.

AUTOMATICS

Please refer to the chapter "Controls and automatics of heating and ventilation units" on pages 71 to 85 of hereby catalogue.