

BRAVA Unit Heaters-Coolers

BRAVA heating units with cooling option intended for the installation under ceilings extends the offer of heating and cooling devices produced by JUWENT. BRAVA units are characterised by modern design allowing them to be used in spaces of elegant interior decoration. Their housing is made of high quality plastic in the form of a pentagon with intake grilles for the control of intake air blowing direction and range. The units use highly-efficient and low-speed fans equipped with three-stage rotational speed controllers as a standard which ensures particularly silent appliance operation. The units are intended for the use in the compartments with the height not exceeding 5m. The units are intended for the use in the compartments requiring application of devices with an aesthetic and innovative appearance, such as:

- showrooms,
- shops,
- shopping centres,
- large offices,
- receptions of buildings,
- car showrooms,
- service and production premises etc.

PRODUCT DESCRIPTION

The unit includes:

- highly-efficient axial fan;
- ring fin single- or double-row heat exchanger;
- plastic housing with five-way air diffuser;

WORKING CONDITIONS

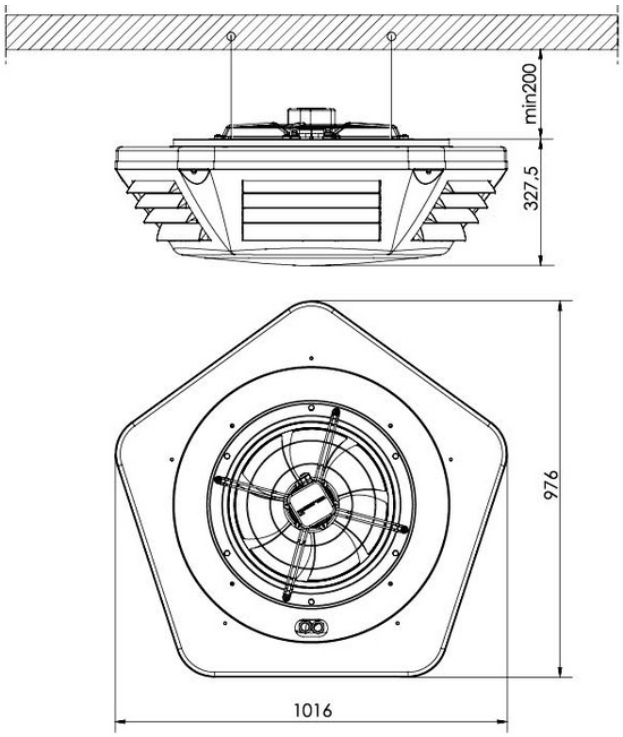
The heat exchanger can be supplied with heating medium with the temperature of up to 150^{o}C and the pressure of up to 1,5 MPa.

JUWENT

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BRAVA-I

DIMENSIONS



Fan specifications	
Voltage [V]	1~200÷240V
Motor power [kW]	0,17
Current [A]	1,7÷1,45
Revolutions [min-1]	1210
IP	54
Insulation class	F
Operating temperature	to +70°C

Water capacity [dm³]		2,0					
Control signal		8V			4V		
Air flow [m³/h]		3200			2250		
Thermal power of units with water heater							
Water temp. [°C]	**Inflow air temp. [°C]**	**kW**	**°C**	**kPa**	**kW**	**°C**	**kPa**

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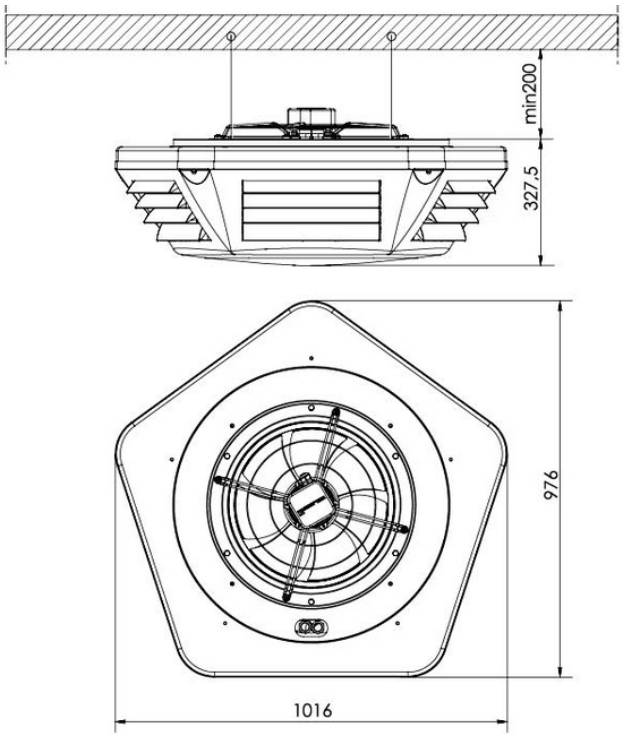
90/70	0	17,5	15	6	14,5	18	4
	10	14,7	23	5	12,2	26	3
	20	12,1	31	3	10,0	33	2
80/60	0	14,8	13	5	12,2	16	3
	10	12,2	21	3	10,2	23	2
	20	9,7	29	2	8,1	31	2
70/50	0	12,2	11	3	10,1	13	2
	10	9,7	18	2	8,1	17	2
	20	7,4	26	1	6,1	28	1
60/40	0	9,8	9	2	8,1	11	2
	10	7,4	16	1	6,1	18	1
	20	5,1	25	1	4,2	26	1

Operation noise level [dB(A)]	
Control signal	**Noise level**
8V	50
4V	43
Unit weight	
Weight [kg]	32

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BRAVA-II

DIMENSIONS



EC fan specifications	
Supply voltage [V]	1~200÷240V
Motor power [W]	170
Current [A]	1,7÷1,45
Speed [min-1]	1210
IP	54
Insulation class	F
Operating temperature	+70°C

Heating capacity							
Number of coil rows		II					
Water capacity [dm³]		3,2					
Control signal		8V			4V		
Air flow [m³/h]		3100			2150		
Heating capacity [kW], air outlet temperature [°C], and resistance of water flow [kPa]							
Water temp. [°C]	**Air inlet temperature [ºC]**	**kW**	**°C**	**kPa**	**kW**	**°C**	**kPa**

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90/70	0	31,7	28	12	25,5	34	8
	10	26,8	35	8	21,6	39	5
	20	22,0	41	6	17,8	45	4
80/60	0	27,0	24	9	21,8	29	6
	10	22,0	30	6	18,0	34	4
	20	17,8	37	4	14,4	40	3
70/50	0	22,5	20	6	18,1	24	4
	10	17,9	26	4	14,5	30	3
	20	13,6	33	3	11,0	35	2
60/40	0	18,0	16	4	14,6	19	3
	10	13,7	22	3	11,1	25	2
	20	9,5	29	2	7,7	31	1

Cooling capacity									
Number of coil rows		II							
Water capacity [dm³]		3,2							
Control signal		8V				4V			
Air flow [m³/h]		3100				2150			
Cooling capacity [kW] , air outlet temperature [°C], water flow [m³/h] and resistance of water flow [kPa]									
Water temp. [ºC]	**Air inlet temperature [ºC]**	**kW**	**ºC**	**[m³/h]**	**kPa**	**kW**	**ºC**	**[m³/h]**	**kPa**
5/10	26	8,9	20	1,50	20	7,4	19	1,25	14
	24	7,4	19	1,25	14	5,7	18	0,97	9
	22	6,2	17	1,07	11	4,7	17	0,81	7
6/12	26	8,2	20	1,20	13	6,7	19	0,94	9
	24	6,3	19	0,90	8	4,9	18	0,67	5
	22	4,6	18	0,66	5	3,9	17	0,57	4

Operation noise level [dB(A)]	
Control signal	**Noise level**
8V	50
4V	43
Unit weight	
Weight [kg]	35,5

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