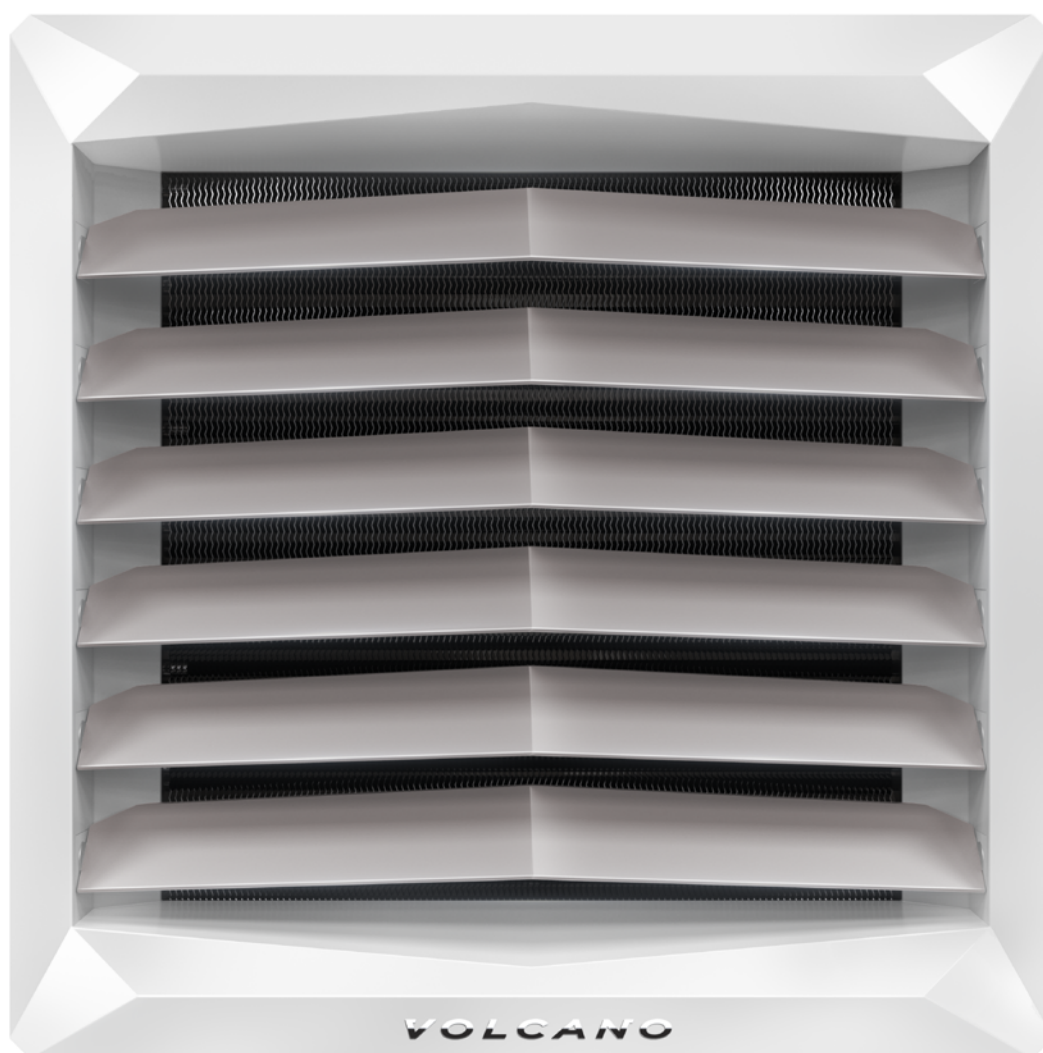




VOLCANO

Heating Unit



VOLCANO



ENERGY-SAVING
& RELIABLE
EC MOTORS

3 year warranty on the device

HEAT EXCHANGERS

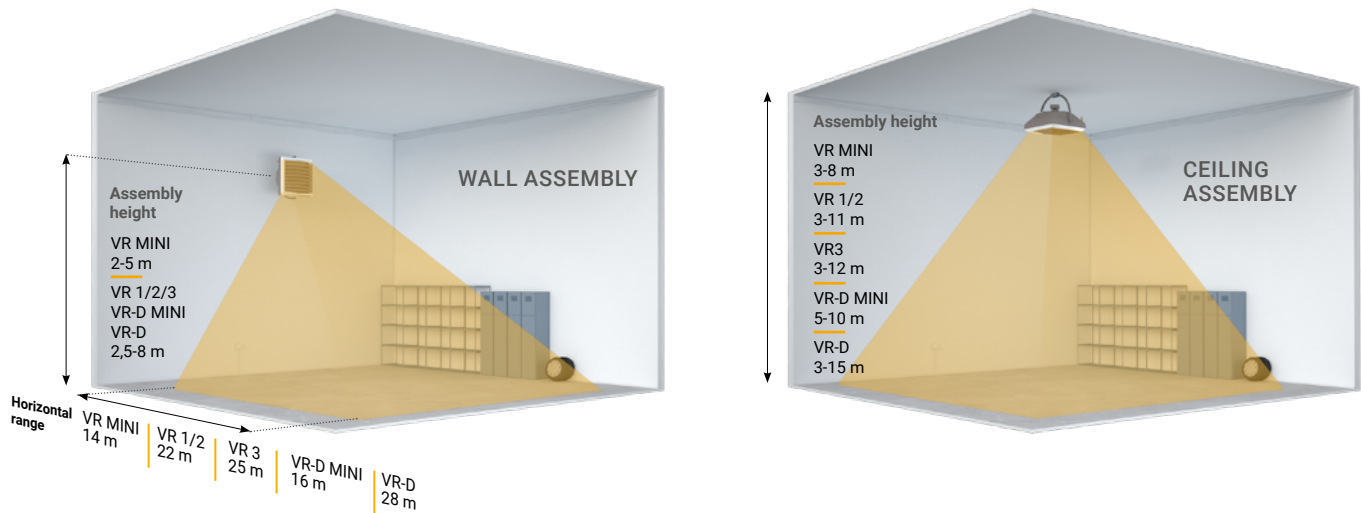
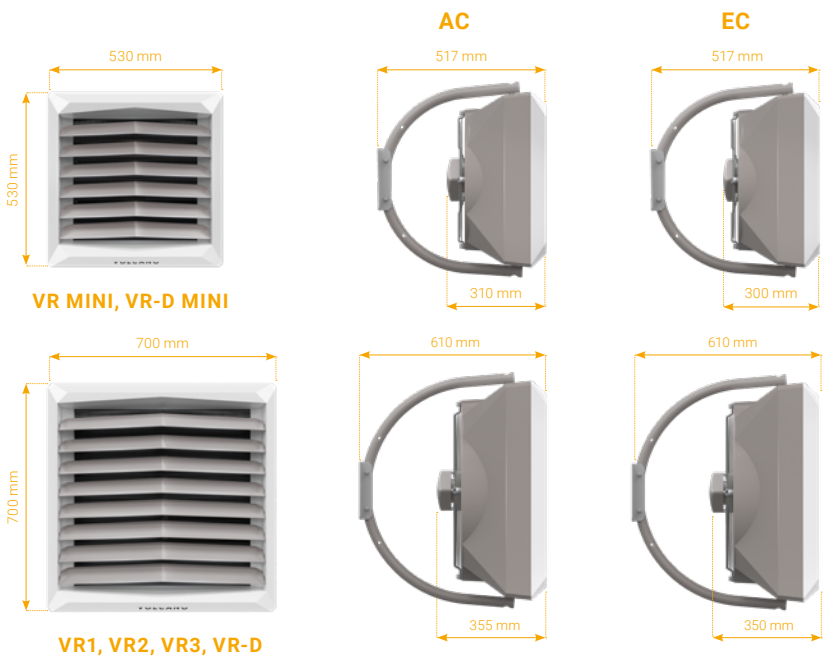
- 1, 2 and 3-row heaters featuring increased heat exchange surfaces provide optimal match of heating power to the needs of the facility;
- Additional anti-corrosive coating of all louvers increases their durability.
- A test of all exchangers guarantees 100% verification of their tightness.

EFFECTIVE MOTORS AND EFFICIENT FANS

- Available with classic 3-gear AC motor or energy efficient EC motor.
- Optimized profile and increased blade surfaces guarantee low maintenance costs and quiet operation.
- Our ideally matching fan casing and a dedicated diffuser provide for equal distribution of air speed in the exchanger to guarantee small flow resistance rates and full use of the exchanger's power output.

HIGH-QUALITY, DURABLE CASING

- Made of the highest class ABS with an anti-UV pigment mixture. The casing is characterized by high mechanical strength, durability, and resistance to high temperatures.



Automation

Parameters						
Model		Wall controller WING/VOLCANO	VR Thermostat	Potentiometer VR EC (0-10V)	Potentiometer with thermostat VR EC (0-10V)	HMI VOLCANO EC controller
VTS product number		1-4-0101-0438	1-4-0101-0038	1-4-0101-0453	1-4-0101-0473	1-4-2801-0157
Motor support		AC		EC		
Power supply voltage	V/ph/Hz	~230/1/50	~230/1/50	~230/1/50	~230/1/50	~230/1/50
Permissible load current	A	6(3)	3	0,02 A for 0-10V		1A for 230VAC 0,02A for 0-10V
Settings range	°C	10...30	10...30	-	5...30	5...40
Work mode	---	manual	manual	manual	manual	manual/automatic
Hourly-weekly calendar	---	No	No	No	No	Yes
Clock	---	No	No	No	No	Yes
Temperature measurement	---	Integrated in the device		-	Integrated in the device	
The possibility of connecting a separate temperature sensor	pcs.	No			1 or 4	1 or 4
Output signal	---	on/off			0-10V DC	
Protection rate	IP	30				20

Cooperation of controls and regulators with heating units								
Model		WING/VOLCANO CONTROL	Speed regulator ARW 3.0/2	VR Thermostat	Speed regulator ARW 0.6	VR EC (0-10 V) Potentiometer	VR EC (0-10 V) Potentiometer with thermostat	Control panel Volcano EC
VTS article No.		1-4-0101-0438	1-4-0101-0434	1-4-0101-0038	1-4-0101-0167	1-4-0101-0453	1-4-0101-0473	1-4-0101-0457
Cooperation with motors		AC				EC		
VR Mini	pcs.	4	4	1	1	8	8	8
VR1	pcs.	2	1	1	0	8	8	8
VR2	pcs.	2	1	1	0	8	8	8
VR3	pcs.	1	1	1	0	8	8	8
VR-D	pcs.	1	1	1	0	8	8	8

Parameters			Parameters			Parameters			Parameters		
	Valve with actuator (VA-VEH202TA)			Speed regulator ARW 3.0/2			Room NTC sensor (for the VOLCANO EC controller)			Speed regulator ARW 0.6	
VTS article No.	---	1-2-1204-2019	VTS article No.	---	1-4-0101-0434	VTS article No.	1-2-1205-1007		VTS article No.	---	1-4-0101-0167
Power supply voltage	V/ph/ Hz	~230/1/50	Power supply voltage	V/ph/ Hz	~230/1/50	VTS article No.	1-2-1205-1007		Power supply voltage	V/ph/ Hz	~230/1/50
Power consumption electrical	W	1	permissible output current	A	3	resistance measurement element	kΩ	NTC 10K	permissible input current	A	0,6
connection	"	3/4	control method	manual		assembly	---	wall-mounted	control method	manual	
kvs	m³/h	4,5	number of steps	5		max. signal wire length	m	100	number of steps	3	
opening/ closing time	min.	3/3	on/off switch	yes		Ambient temperature	°C	-20...+70	on / off switch	no	
Protection rating	IP	54	max. ambient temperature	°C	35	Protection rating	IP	66	max. ambient temperature	°C	35
			protection rating	IP	54				protection rating	IP	54

Technical parameters

Parameter	Unit	VOLCANO VR MINI		VOLCANO VR1		VOLCANO VR2		VOLCANO VR3		VOLCANO VR-D		VOLCANO VR-D MINI	
VTS article No.		AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC
		1-4-0101-0445	1-4-0101-0455	1-4-0101-0446	1-4-0101-0442	1-4-0101-0447	1-4-0101-0443	1-4-0101-0448	1-4-0101-0444	1-4-0101-0449	1-4-0101-0450	1-4-0101-0506	1-4-0101-0498
Number of heater rows	-	2		1		2		3		---		---	
Maximum air output	m³/h	2100		5300		4850		5700		6500		2200	2330
Heating power range	kW	3-20		5-30		8-50		13-75		---		---	
Maximum temperature of the heating medium	°C	130								---		---	
Maximum working pressure	MPa	1,6								---		---	
Maximum horizontal air range	m	14		23		22		25		28		15	16
Maximum vertical air range	m	8		12		11		12		15		9	10
Water capacity	dm	1,12		1,25		2,16		3,1		---		---	
Connection pipes diameter	"	3/4								---		---	
Device weight (without water)	kg	13	14	21	21	21,5	21,5	25,5	24,5	18	15,5	10,6	8
Power supply voltage	V/Hz	1 ~ 230/50											
Motor power	kW	0,115	0,095	0,28	0,25	0,28	0,25	0,45	0,37	0,45	0,37	0,115	0,095
Rated current	A	0,53	0,51	1,3				1,95	1,7	1,95	1,7	0,53	0,51
Rated motor rotational speed	rpm	1450	1200	1380	1430	1380	1430	1380	1400	1380	1400	1450	1200
Motor protection level	IP	54											
Casing color palette		Front: RAL 9016 Traffic White, rear + console: RAL 7036 Platinum Gray, fan (EC): RAL 6038 Green											