

iDM BOOSTER 10/20 HEAT PUMP



iNTELLiGENT HEAT PUMPS FROM AUSTRIA
www.idm-energie.com

iDM-SYSTEM SOLUTION TO COMPLY WITH THE DRINKING WATER ORDINANCE

With the iDM system solution you get a monovalent heat pump combination so the required domestic hot water temperatures of the drinking water ordinance can be adhered without a conventional heat generator and without an electric immersion heater.

The drinking water ordinance

in apartment buildings, hotel complexes, retirement homes, hospitals, sports and industrial facilities.

The drinking water ordinance DIN EN 1988-200 and the DVGW worksheet W 551 apply to the preparation of domestic hot water in apartment buildings (not one or two family houses) with a domestic hot water heater of over 400 liters and/or over 3 liters of pipeline volume between the outlet of the drinking water heater and the tapping point.

The drinking water ordinance states for central domestic hot water preparation:

- A temperature of at least 60 °C must always be maintained at the outlet of the domestic hot water heater (also with use of flow-through fresh water systems with a downstream pipe volume of over 3 liters).
- In circulation mode, the circulation return temperature may be max. 5 K below the outlet temperature of the domestic hot water heater.
- For energy-saving purposes, the circulation pump may be deactivated for a maximum of 8 hours a day, which means that lower temperatures are permitted during this time if hygienic conditions permit.



iDM BOOSTER 10/20 kW

HEAT SOURCE: HEATING WATER

We faced the challenge of the drinking water ordinance and developed the iDM Booster heat pump. In combination with an iDM AL TWIN or AL MAX heat pump the iDM Booster drinking water heat pump offers a hydraulically separated - yet interconnected system.



iDM AIR SOURCE HEAT PUMP TERRA AL Twin/ AL MAX

generates heat for rooms - for example 35 °C for underfloor heating - efficient, economic and climate-neutral.

iDM HYGIENIK storage tank

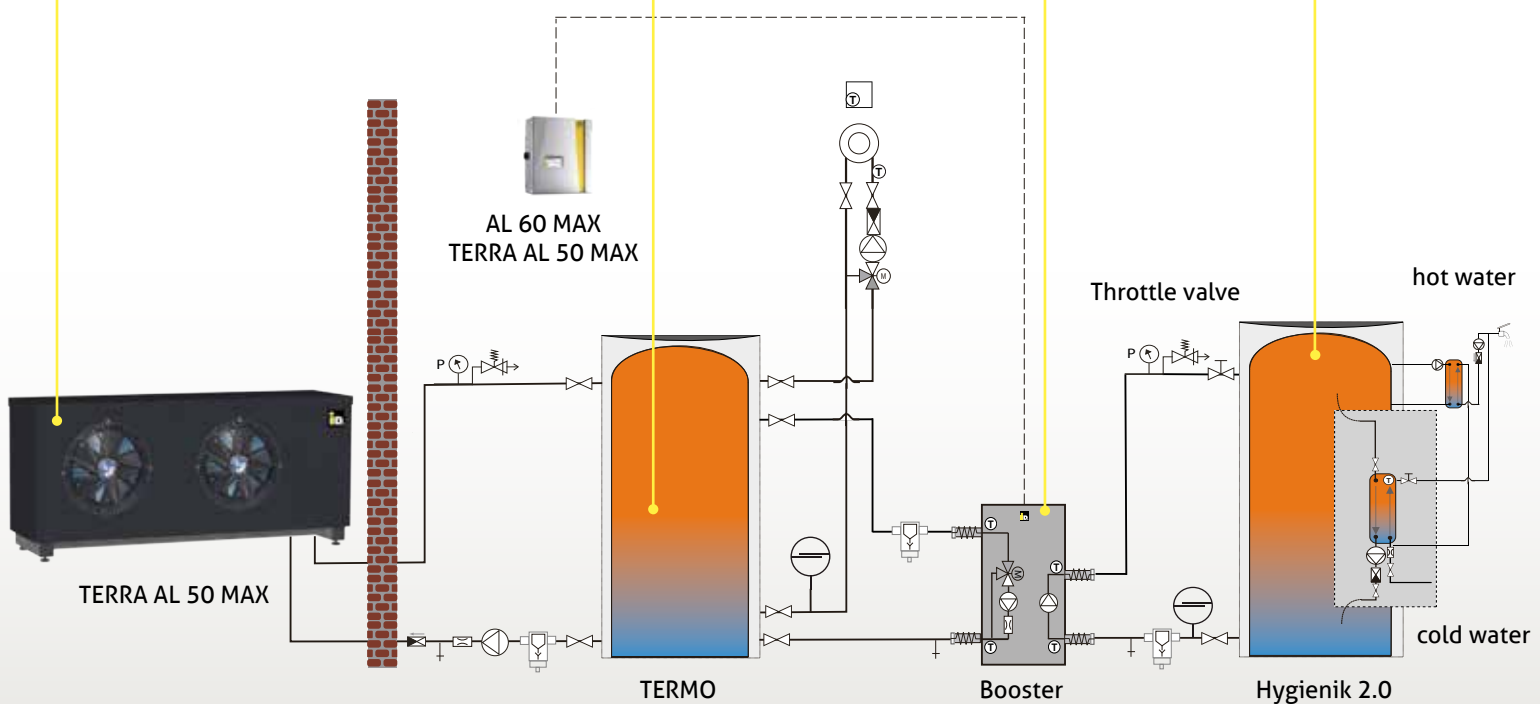
in connection with the integrated iDM hot water station, the required 60 °C are ensured with the circulation station and the circulation return temperature of 55 °C .

iDM DRINKING WATER HEAT PUMP Booster

for effective domestic hot water preparation, the iDM Hygienik storage tank heats up to 65 °C.

iDM HEATING WATER BUFFER TANK Termo

stores the heating energy and serves at the same time as an energy source for the iDM drinking water heat pump Booster.



TECHNICAL DATA

BOOSTER HEAT PUMP

Technical data in compliance with EN14511	UNIT	Booster 10	Booster 20
Energy efficiency class package label (heat pump + temperature control)	-	A++/A+	A++/A+
Heat output W25°C / W65°C	kW	10,92	18,47
Power consumption W25°C / W65°C	kW	2,79	4,95
COP	-	3,92	3,73
Heat output W25°C/W55°C	kW	11,50	19,54
Power consumption W25°C/W55°C	kW	2,33	4,01
COP	-	4,93	4,88
Refrigerant	-	R513A	R513A
Max. flow temperature	°C	75	75
Main current power supply	V	400	400
Dimensions HxWxD	mm	1128x520x610	
Weight	kg	160	175
Sound power level	dB(A)	49	51
Application recommendation		max. 6 residential units ¹⁾ with 1000 l storage volume	max. 12 residential units ¹⁾ with 1500 l storage volume

¹⁾This is only a rough indication, the precise purpose requires precise planning information that has to be calculated for the respective building project.



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Changes and errors excepted.

