

AIR/WATER HEAT PUMP NIBE™ SPLIT

NIBE air/water split heat pump
with HBS 05 or ACVM

NEW



Features of NIBE™ SPLIT

Inverter controlled compressor

Cooling function

Outdoor unit with compact dimensions

Built-in condensate water tray



NIBE SPLIT

NIBE SPLIT range consists of NIBE AMS 10 -8, -12 and -16. The updated programme opens up the possibility of both cascade and single unit installations. A single unit installation gives a complete coverage of building heating power demand in the 5 -16 kW range.

NIBE AMS 10-8 and AMS 10-12 can be combined with a ACVM 270 indoor module which creates a complete system for heating, cooling and hot water.

Another possibility is to combine HBS 05 with an AMS10 outdoor unit in desired size. Combine this with control unit SMO or indoor module VVM for a complete heating system.

These NIBE products have been developed with special attention of making installation as smooth as possible. Great effort has been made to create attractive system combinations. A broad accessory programme is available and there are numerous recommended possible combinations.

Please visit www.nibe.eu for further information.

NIBE

A+++

Energy efficiency class
package label for
NIBE SPLIT HBS 05

NIBE™ SPLIT air/water heat pump

NIBE™ SPLIT HBS 05

NIBE SPLIT HBS 05 is a flexible air/water split system. The outdoor module, AMS 10, is connected by refrigerant pipes to HBS 05 which is located indoors. The exchange between the refrigerant and the heating system liquid occurs in HBS 05.

Combine this with a VVM indoor module or SMO controller of your choice to create a complete system for heating, cooling and hot water. Up to 8 heat pumps can be controlled by a single SMO 40 controller.

- Customer adapted and cost effective split system
- Intended to be docked with NIBE SMO and NIBE VVM
- Possible to combine up to eight outdoor modules in one system
- Low risk of freezing because refrigerant between the indoor and outdoor module
- Integrated condensate tray heater
- Outdoor module with compact dimensions

NIBE™ SPLIT ACVM

The NIBE SPLIT ACVM offers a solution with an all-in-one module. The AMS 10-8 or AMS 10-12 could be connected to an ACVM 270 indoor module.

The ACVM 270 is an all-in-one module featuring an integrated water heater, immersion heater, circulation pump and control system.

- NIBE SPLIT is a system for heating, cooling and hot water production for a variety of house sizes
- Easy installation thanks to the all-in-one indoor unit
- Full accessory programme, for example pre-defined solar packs

NIBE™ SPLIT systems with ACVM 270



AMS 10-8 with ACVM 270

Combination of outdoor unit AMS10-8 and all-in-one indoor unit ACVM 270. This system is suitable for small sized homes and normal hot water demand.

House heating demand 3–7 kW



AMS 10-12 with ACVM 270

Combination of outdoor unit AMS10-12 and all-in-one indoor unit ACVM 270. This system is suitable for average sized homes and normal hot water demand.

House heating demand 5–10 kW

NIBE SPLIT™ systems with HBS 05

Combinations

	AMS 10-8/HBS 05-12	AMS 10-12/HBS 05-12	AMS 10-16/HBS05-16
VVM 310	X	X	X
VVM 320	X	X	
VVM 500	X	X	X
SMO 20	X	X	X
SMO 40	X	X	X

Example of possible combinations



AMS 10-12 + HBS 05-12 and indoor unit VVM

Combination of outdoor unit AMS 10-12 and module HBS 05-12 with indoor unit VVM. A complete system for heating, cooling and hot water.



AMS 10-16 + HBS 05-16 and control unit SMO 40

Combination of outdoor unit AMS 10-16 and module HBS 05-16 with control unit SMO 40. Complete system for heating and cooling.

Cascade systems with up to eight heat pumps possible with NIBE SMO 40.



AMS 10-16 + HBS 05-16 and control unit SMO 40 with separate tank

Combination of outdoor unit AMS 10-16 and module HBS 05-16 with control unit SMO 40 and a separate tank. Complete system for heating, cooling and hot water.

Cascade systems with up to eight heat pumps possible with NIBE SMO 40.

Technical specifications

NIBE™ SPLIT

Type		AMS 10-8	AMS 10-12	AMS 10-16
Heating				
Heating capacity/COP at 2/45 °C*		5.03/2.96	6.80/3.04	9.18/3.08
Heating capacity/COP at 2/35 °C*		5.11/3.76	6.91/3.86	9.33/3.92
Heating capacity/COP at 7/35 °C*		3.86/4.65	5.21/4.78	7.03/4.85
Heating capacity/COP at 7/45 °C*		3.70/3.70	5.00/3.82	6.75/3.88
Cooling				
Cooling capacity/COP at 27/7 °C*		7.52/3.17	9.87/3.13	13.30/3.33
Cooling capacity/COP at 27/18 °C*		11.20/3.50	11.70/3.52	17.70/3.91
Operating voltage		230 V 50 Hz, 230 V 2AC 50 Hz	230 V 50 Hz, 230 V 2AC 50 Hz	230 V 50 Hz, 230 V 2AC 50 Hz
Compressor		Twin rotary	Twin rotary	Twin rotary
Enclosure class		IP 24	IP 24	IP 24
Max outgoing heating medium temperature	°C	58	58	58
Refrigerant quantity (R410A)	kg	2.55	2.9	4.0
Connection refrigerant pipe		3/8" / 5/8" (flare)		
Height	mm	750	845	1300
Width	mm	780	970	970
Depth	mm	340	370	370
Weight	kg	60	74	105

Dimensions		ACVM 270		
Height	mm		1760	-
Width	mm		600	-
Depth	mm		660	-
Weight	kg		140	-
Connection heating medium male Ø	mm		22	-

Dimensions		HBS 05-12		HBS 05-16
Height			463	463
Width			404	404
Depth			472	472
Weight			15	19,5
Connection heating medium male Ø			G 1	G 1

Energy Labeling				
Indoor unit		ACVM 270		
P_{Nazivna} 35°C/55°C		6,3/7,0	8,5/10,0	-
SCOP, Cold/Average/Warm climate, 35°C		3,3/4,1/5,7	3,4/4,3/5,8	-
Efficiency class 35/55°C product label		A++/A+	A++/A++	-
Efficiency class 35/55°C package label		A++/A+	A++/A++	-
Efficiency class hot water/Load profile		A/XL (ACVM)		-

Indoor unit		HBS 05-12 / VVM 320		HBS 05-16 / VVM 310
P_{Nazivna} 35°C/55°C		8.2 / 7.0	11.5 / 10.0	14.5 / 14.0
SCOP, Cold/Average/Warm climate, 35°C		4,3	4,4	4,4
Efficiency class 35/55°C product label		A++/A++	A++/A++	A++/A++
Efficiency class 35/55°C package label		A+++/A++	A+++/A++	A+++/A++
Efficiency class hot water/Load profile		A/XL (VVM 320)		A/XL (VVM 310)

*In accordance with EN 14511.

