Air/water heat pumps

NIBE

This document should reflect possible compatibility, regardless of market.

INDOOR MODULES

Indoor module	Compatible outdoor module		
	Monobloc		Split
VVM 225 (Cu)	F2120-8 S2125-8, 12 (+UKV)*	F2040-6, 8 F2050-6, 10	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
VVM 225 (SS and En)	F2120-8 S2125-8, 12 (+UKV)*	F2040-6, 8, 12 (+UKV)* F2050-6, 10, 12 (+UKV)*	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 (+UKV)* AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
VVM 320 (all versions) VVM S320 (all versions)	F2120-8, 12, 16 S2125-8, 12, 14**, 16**	F2040-6, 8, 12 F2050-6, 10, 12	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
VVM 325 Cu VVM S325 Cu	F2120-8, 12, 16 S2125-8, 12, 14**, 16**	F2040-6, 8, 12 F2050-6, 10, 12	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
VVM 310	F2120-8, 12, 16 S2125-8, 12, 14, 16	F2040-6, 8, 12, 16 F2050-6, 10, 12, 16	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 10-16 + HBS 05-16 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
VVM 500 VVM S500	F2120-8, 12, 16, 20 S2125-8, 12, 14, 16, 20	F2040-6, 8, 12, 16 F2050-6, 10, 12, 16	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 10-16 + HBS 05-16 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
VVM S330 (all versions)	F2120-8, 12 S2125-8, 12	F2040-6, 8, 12 F2050-6, 10, 12	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
SVM S332-6 1x230V SVM S332-6 EM 3x400V			AMS 20-6
SVM S332-10 1x230V SVM S332-10 EM 3x400V			AMS 20-10

Indoor module	Compatible outdoor module		
	Monobloc		Split
BA-SVM 10 200/6 E BA-SVM 10 200/6 R BA-SVM 10 200/6 E EM			AMS 10-6
BA-SVM 10 200/12 E BA-SVM 10 200/12 R BA-SVM 10 200/12 E EM			AMS 10-8 AMS 10-12 (+UKV)*
BA-SVM 20 200/6 E BA-SVM 20 200/6 E EM			AMS 10-6 AMS 20-6
BA-SVM 20 200/12 E BA-SVM 20 200/12 E EM			AMS 10-8 AMS 10-12 (+UKV)* AMS 20-10
SHB 20-6			AMS 10-6 AMS 20-6
SHB 20-12			AMS 10-8 AMS 10-12 (+UKV)* AMS 20-10
MHB 05 (all versions)	F2120-8,12 (+UKV)* S2125-8,12 (+UKV)*	F2040-6, 8, 12 (+UKV)* F2050-6, 10, 12 (+UKV)*	AMS 10-6 + HBS 05-6 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 (+UKV)* AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10

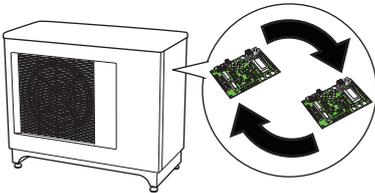* NIBE recommend the use of an additional buffer volume/tank for this combination, e.g. NIBE UKV.
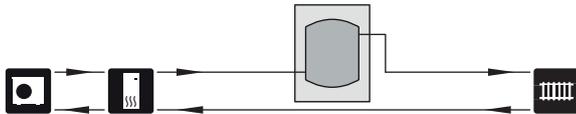
**S2125-16 together with VVM S320 / VVM S325 – The flow and pressure settings from the VVM are limited. Ensure that the minimum flow for defrosting and heating can be achieved.

Outdoor module	Lowest compatible software version for S-series
NIBE SPLIT HBS 05 (AMS 10, HBS 05)	V44 (AA23 communication card)
F2040	V44 (AA23 communication card)
F2050-6	V8320
F2050-12	V9696
F2120	V561

Before 2019

In some air/water heat pumps, manufactured before or in 2019, it is required that circuit boards be updated to be compatible with S-serie products.
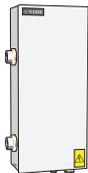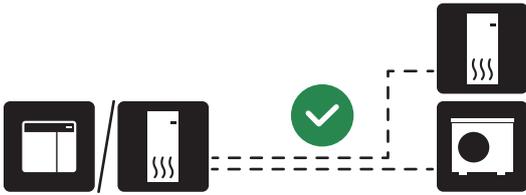
CONTROL MODULES

Control module	Compatible outdoor module		
	Monobloc		Split
SMO 20	F2120-8, 12, 16, -20 S2125-8, 12, 14, 16, 20	F2040-6, 8, 12, 16 F2050-6, 10, 12, 16	AMS 10-6 + HBS 05-06 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 10-16 + HBS 05-16 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
SMO 40	F2120-8, 12, 16, -20 S2125-8, 12, 14, 16, 20	F2040-6, 8, 12, 16 F2050-6, 10, 12, 16	AMS 10-6 + HBS 05-06 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 10-16 + HBS 05-16 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10
SMO S40	F2120-8, 12, 16, -20 S2125-8, 12, 14, 16, 20	F2040-6, 8, 12, 16 F2050-6, 10, 12, 16	AMS 10-6 + HBS 05-06 AMS 10-8 + HBS 05-12 AMS 10-12 + HBS 05-12 AMS 10-16 + HBS 05-16 AMS 20-6 + HBS 20-6 AMS 20-10 + HBS 20-10

SYSTEM SOLUTIONS

The following combinations of products are recommended for control by SMO S40.

Control module	Air/water heat pump	Heat water control	Accumulator with hot water heater	Circ. pump	Water heater	Addition	Volume vessel
SMO S40	AMS 10-6 / HBS 05-6	VST 05	VPA 200/70 VPA 300/200 VPA 450/300 VPAS 300/450	CPD 11-25/65	VPB 200 VPB 300 VPBS 300 VPB 500 VPB 750 VPB 1000	ELK 15 ELK 26 ELK 42 ELK 213	UKV 40 UKV 100 UKV 200 UKV 300 UKV 500
	AMS 20-6 / HBS 20-6						
	AMS 20-10 / HBS 20-10						
	F2040 – 6						
	F2040 – 8						
	F2050 – 6						
	F2050 – 10						
	F2120 – 8						
	S2125 – 8						
	AMS 10-12 / HBS 05-12	VST 11					
	F2040 – 12						
	F2050 – 12						
	F2120 – 12						
	S2125 – 12						
	S2125 – 14						
	F2120 – 16						
	S2125 – 16						
	AMS 10-16 / HBS 05-16	VST 20	VPA 300/200 VPA 450/300 VPAS 300/450	CPD 11-25/75	VPB 500 VPB 750 VPB 1000		UKV 200 UKV 300 UKV 500 UKV 750 UKV 1000
	F2040 – 16						
	F2050 – 16						
	F2120 – 20						
	F2300 – 20						
	S2125 – 20						

COMPATIBLE HYBRID PRODUCTS

Main units (EB100/AA35)	Heat pumps (EB101–EB108)
SMO S40	S2125
S1155	F2300
S1156	F2120
S1255	F2050
S1256	SPLIT AMS / HBS
	F1145
	F1245
	F1155
	F1255
	S1155
	S1156
	S1255
	S1256
	F1345
	F1355

LEGACY PRODUCTS

| Indoor module | Legacy compatible outdoor module | |
	Monobloc	
VVM 320 (all versions) VVM S320 (all versions)	F2030*-7, 9	
VVM 325 Cu VVM S325 Cu	F2030*-7, 9	
VVM 310	F2030-7, 9	
VVM 500	F2030-7, 9	F2300-14, 20

> *F2030: it is required that the circuit boards are exchanged to be compatible with S-serie products.
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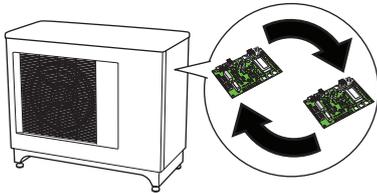
| Control module | Legacy compatible outdoor module | | |
	Monobloc		
SMO 20	F2030-7, 9	F2300-14, 20 (SW55)	F2025 (SW55) F2026 (SW55)
SMO 40	F2030-7, 9	F2300-14, 20 (SW55)	F2025 (SW55) F2026 (SW55)
SMO S40		F2300-20	