

NIBE Energy Systems - Solar

Guides / recommendations

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For more information about NIBE solar packs and accessories please see www.nibe.eu

NIBE Solar F1145/VPBS FP215 P/PL - Solar pack for NIBE F1145 heat pump and NIBE VPBS tank



Our guidance for south oriented systems free from shade between 20-35° pitch are:
2-5 persons = 2 collectors
5-7 persons = 3 collectors

Our guidance for south oriented systems free from shade between 35-60° pitch are:
2-4 persons = 2 collectors
4-6 persons = 3 collectors

Our guidance for south oriented systems free from shade between 60-90° pitch are:
2-3 persons = 2 collectors
3-6 persons = 3 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 20-35° pitch are:
2-4 persons = 2 collectors
4-6 persons = 3 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 35-60° pitch are:
2-3 persons = 2 collectors
3-5 persons = 3 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 60-90° pitch are:
1-2 persons = 2 collectors
2-4 persons = 3 collectors

NIBE Solar F1145/VPAS FP215 P/PL - Solar pack for NIBE F1145 heat pump and NIBE VPAS tank



Our guidance for south oriented systems free from shade between 20-35° pitch are:
3-5 persons = 3 collectors
5-7 persons = 4 collectors
7-9 persons = 5 collectors

Our guidance for south oriented systems free from shade between 35-60° pitch are:
2-4 persons = 3 collectors
4-6 persons = 4 collectors
6-8 persons = 5 collectors

Our guidance for south oriented systems free from shade between 60-90° pitch are:
2-3 persons = 3 collectors
3-4 persons = 4 collectors
4-6 persons = 5 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 20-35° pitch are:
2-4 persons = 3 collectors
4-6 persons = 4 collectors
6-8 persons = 5 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 35-60° pitch are:
2-3 persons = 3 collectors
3-5 persons = 4 collectors
5-7 persons = 5 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 60-90° pitch are:
1-2 persons = 3 collectors
2-3 persons = 4 collectors
3-5 persons = 5 collector

NIBE Solar VVM 500 FP215 P/PL - Solar pack for NIBE F2026/2300 heat pump and NIBE VVM 500 "all in one indoor module"



Our guidance for south oriented systems free from shade between 20-35° pitch are:
1-2 persons = 2 collectors
3-4 persons = 3 collectors
5-6 persons = 4 collectors
7-9 persons = 5 collectors

Our guidance for south oriented systems free from shade between 35-60° pitch are:
1-2 persons = 2 collectors
3-4 persons = 3 collectors
5-6 persons = 4 collectors
7-9 persons = 5 collectors

Our guidance for south oriented systems free from shade between 60-90° pitch are:
1-2 persons = 2 collectors
2-3 persons = 3 collectors
4-5 persons = 4 collectors
5-8 persons = 5 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 20-35° pitch are:
1-2 persons = 2 collectors
2-3 persons = 3 collectors
4-5 persons = 4 collectors
6-8 persons = 5 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 35-60° pitch are:
1-2 persons = 2 collectors
2-3 persons = 3 collectors
4-5 persons = 4 collectors
6-8 persons = 5 collectors

Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 60-90° pitch are:
1-1 persons = 2 collectors
2-2 persons = 3 collectors
3-3 persons = 4 collectors
4-5 persons = 5 collectors

NIBE Solar F370/F470 FP215 P/PL - Solar pack for NIBE F370/470 heat pumps



- Our guidance for south oriented systems free from shade between 20-35° pitch are:**
 2-5 persons = 2 collectors
 5-7 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 35-60° pitch are:**
 2-4 persons = 2 collectors
 4-6 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 60-90° pitch are:**
 2-3 persons = 2 collectors
 3-6 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 20-35° pitch are:**
 2-4 persons = 2 collectors
 4-6 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 35-60° pitch are:**
 2-3 persons = 2 collectors
 3-5 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 60-90° pitch are:**
 1-2 persons = 2 collectors
 2-4 persons = 3 collectors

NIBE Solar SPLIT FP215 P/PL - Solar pack for NIBE SPLIT air/water heat pump



- Our guidance for south oriented systems free from shade between 20-35° pitch are:**
 2-5 persons = 2 collectors
 5-7 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 35-60° pitch are:**
 2-4 persons = 2 collectors
 4-6 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 60-90° pitch are:**
 2-3 persons = 2 collectors
 3-6 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 20-35° pitch are:**
 2-4 persons = 2 collectors
 4-6 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 35-60° pitch are:**
 2-3 persons = 2 collectors
 3-5 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 60-90° pitch are:**
 1-2 persons = 2 collectors
 2-4 persons = 3 collectors

NIBE Solar For Coil FP215 P / PL - for storage tanks and water heaters with internal solar coil
NIBE Solar No Coil FP215 P / PL - for boilers and tanks without an internal solar coil



NIBE FP215 P

- About 300 Litres storage tank with max temp about 90-95°c**
- Our guidance for south oriented systems free from shade between 20-35° pitch are:**
 2-5 persons = 2 collectors, 5-7 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 35-60° pitch are:**
 2-4 persons = 2 collectors, 4-6 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 60-90° pitch are:**
 2-3 persons = 2 collectors, 3-6 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 20-35° pitch are:**
 2-4 persons = 2 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 35-60° pitch are:**
 2-3 persons = 2 collectors, 3-5 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 60-90° pitch are:**
 1-2 persons = 2 collectors, 2-4 persons = 3 collectors



NIBE FP215 PL

- About 750 Litres storage tank with max temp about 90-95°c**
- Our guidance for south oriented systems free from shade between 20-35° pitch are:**
 1-3 persons = 2 collectors, 3-5 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 35-60° pitch are:**
 1-2 persons = 2 collectors, 2-4 persons = 3 collectors
- Our guidance for south oriented systems free from shade between 60-90° pitch are:**
 1-2 persons = 2 collectors, 2-3 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 20-35° pitch are:**
 1-2 persons = 2 collectors, 2-4 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 35-60° pitch are:**
 1-2 persons = 2 collectors, 2-3 persons = 3 collectors
- Our guidance for east or west oriented systems free from shade or partly shaded south oriented systems between 60-90° pitch are:**
 1-1 persons = 2 collectors, 1-2 persons = 3 collectors

FP 215 P Vertical collectors mounted in roof with in roof flashing kits in 1 horizontal row

Quantity of collector/collectors		1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
	Nibe Art. Nr.												
SMP-ID 2 Basic Set for 2 Collectors	057040	X	1	1	1	1	1	1	1	1		1	1
SMP-ID 1 Extension Set for each additional Collector	057041	X		1	2	3	4	5	6	7	8	9	10

FP 215 P Vertical collectors mounted on pan tile roof with 25° triangles in 1 horizontal row													
Quantity of collector/collectors		1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
	Nibe Art. Nr.												
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-DS1	057006	1											
SMP-DS2	057007		1										
SMP-DS3	057008			1	1	1	1	1	1	1	1	1	1
SMP-DS ERW	057009				1	2	3	4	5	6	7	8	9
SMP-ZB DS	057020		1	1	1	1	1	1	1	1	1	1	1
Screw kit	057039	2	3	4	5	6	7	8	9	10	11	12	13
SMP-A 25	057016	2	3	4	5	6	7	8	9	10	11	12	13
Bolt kit	057086	1	1	2	3	2	2	2	2	3	3	3	3
Extra fixpoints for increased snow / wind loads or in case substructure are to weak													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
For a little bit more strength add the following													
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
SMP-ZB DS	057020		1	2	3	4	5	6	7	8	9	10	11
Screw kit	057039		1	2	3	4	5	6	7	8	9	10	11
Bolt kit	057086					2	3	3	4	4	5	5	6
For more strength add the following (Mounting rails in 3 levels)													
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
SMP-ZB DS	057020	1	3	5	7	9	11	13	15	17	19	21	23
Screw kit	057039		1	2	3	4	5	6	7	8	9	10	11
Bolt kit	057086		1	1	1	3	4	6	7	7	8	9	10
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)													
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-DS1	057006	1											
SMP-DS2	057007		1										
SMP-DS3	057008			1	1	1	1	1	1	1	1	1	1
SMP-DS ERW	057009			1	2	3	4	5	6	7	8	9	9
SMP-ZB DS	057020		1	2	3	4	5	6	7	8	9	10	11
Screw kit	057039	1	3	5	7	9	11	13	15	17	19	21	23
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
Bolt kit	057086		1	1	1	3	4	5	6	6	7	8	9

FP 215 P Vertical collectors mounted on pan tile roofs in 1 horizontal row													
Quantity of collector/collectors		1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
	Nibe Art. Nr.												
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-DS1	057006	1											
SMP-DS2	057007		1										
SMP-DS3	057008			1	1	1	1	1	1	1	1	1	1
SMP-DS ERW	057009				1	2	3	4	5	6	7	8	9
SMP-ZB DS	057020		1	1	1	1	1	1	1	1	1	1	1
Screw kit	057039	2	3	4	5	6	7	8	9	10	11	12	13
Extra fixpoints for increased snow / wind loads or in case substructure are to weak													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
For more strength add the following													
SMP-ZB DS	057020		1	2	3	4	5	6	7	8	9	10	11
Screw kit	057039		1	2	3	4	5	6	7	8	9	10	11
For a lot more strength add the following (Mounting rails in 3 levels)													
SMP-ZB DS	057020	1	2	4	5	7	8	10	11	13	14	16	17
Screw kit	057039	1	2	4	5	7	8	10	11	13	14	16	17
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 PL Horizontal collectors mounted on pan tile roof with 45° stands in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019	1	2	3	4	5	6	7	8	9	10	11	
SMP-DS1	057006	1											
SMP-DS2	057007	1	1										
SMP-DS3	057008			1	1	1	1	1	1	1	1	1	1
SMP-DS ERW	057009				1	2	3	4	5	6	7	8	9
SMP-ZB DS	057020		2	3	4	5	6	7	8	9	10	11	12
Screw kit	057039	2	4	6	8	10	12	14	16	18	20	22	24
SMP-AQ 45°	057017	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	1	2	2	3	3	4	4	5	5	6	6
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
SMP-ZB DS	057020	1	2	3	4	5	6	7	8	9	10	11	12
Screw kit	057039	1	2	3	4	5	6	7	8	9	10	11	12
Bolt kit	057086	1	1	2	2	3	3	4	4	5	5	6	6
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
SMP-ZB DS	057020	1	2	3	4	5	6	7	8	9	10	11	12
Screw kit	057039	1	2	3	4	5	6	7	8	9	10	11	12
Bolt kit	057086	1	2	3	4	5	6	7	8	9	10	11	12
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
SMP-DS1	057006	1											
SMP-DS2	057007	1	1										
SMP-DS3	057008			1	1	1	1	1	1	1	1	1	1
SMP-DS ERW	057009				1	2	3	4	5	6	7	8	9
SMP-ZB DS	057020	1	2	3	4	5	6	7	8	9	10	11	12
Screw kit	057039	1	2	3	4	5	6	7	8	9	10	11	12
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
Bolt kit	057086	2	3	4	5	6	7	9	10	11	12	13	14

FP 215 PL Horizontal collectors mounted on pan tile roof in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019	1	2	3	4	5	6	7	8	9	10	11	
SMP-DS1	057006	1											
SMP-DS2	057007	1	1										
SMP-DS3	057008			1	1	1	1	1	1	1	1	1	1
SMP-DS ERW	057009				1	2	3	4	5	6	7	8	9
SMP-ZB DS	057020		2	3	4	5	6	7	8	9	10	11	12
Screw kit	057039	2	4	6	8	10	12	14	16	18	20	22	24
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-ZB DS	057020	1	2	3	4	5	6	7	8	9	10	11	12
Screw kit	057039	1	2	3	4	5	6	7	8	9	10	11	12
For a lot more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-ZB DS	057020	3	5	8	10	13	15	18	20	23	25	28	30
Screw kit	057039	3	5	8	10	13	15	18	20	23	25	28	30
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 P Vertical collectors mounted on bitumen roof in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Sealing plate	057070	4	4	6	8	10	12	14	16	18	20	22	24
Rubber sealing	057071	8	8	12	16	20	24	28	32	36	40	44	48
Adaptor	057075	4	4	6	8	10	12	14	16	18	20	22	24
Screw kit	057072	1	1	2	2	2	3	3	4	4	4	5	5
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak													
For more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Sealing plate	057070		2	4	6	8	10	12	14	16	18	20	22
Rubber sealing	057071		4	8	12	16	20	24	28	32	36	40	44
Adaptor	057075		2	4	6	8	10	12	14	16	18	20	22
Screw kit	057072		1	1	2	2	2	3	3	4	4	4	5
Bolt kit	057086		1	1	1	1	1	2	2	2	3	3	3
For a lot more strength add the following (3 levels of mounting rails)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Sealing plate	057070	1	6	9	12	15	18	21	24	27	30	33	36
Rubber sealing	057071	2	12	18	24	30	36	42	48	54	60	66	72
Adaptor	057075	1	6	9	12	15	18	21	24	27	30	33	36
Bolt kit	057086		1	1	1	1	1	2	2	2	2	3	3
Screw kit	057072		1	2	2	2	3	3	4	4	4	5	5
SMP-SHS1	057003	1	1				1	1			1	1	
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 P Vertical collectors mounted on bitumen roof & 25° triangles in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Sealing plate	057070	4	6	8	10	12	14	16	18	20	22	24	26
Rubber sealing	057071	8	12	16	20	24	28	32	36	40	44	48	48
Bolt kit	057086	1	2	3	3	4	4	5	5	6	6	7	7
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
SMP-A 25	057016	2	3	4	5	6	7	8	9	10	11	12	13
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Sealing plate	057070		2	4	6	8	10	12	14	16	18	20	22
Rubber sealing	057071		4	8	12	16	20	24	28	32	36	40	44
Bolt kit	057086		1	1	2	3	4	4	5	6	8	7	8
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Sealing plate	057070	2	6	10	14	18	22	26	30	34	38	42	46
Rubber sealing	057071	4	12	20	28	36	44	52	60	68	76	84	92
Bolt kit	057086	1	2	3	5	6	8	9	11	12	14	15	17
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Sealing plate	057070	2	6	10	14	18	22	26	30	34	38	42	46
Rubber sealing	057071	4	12	20	28	36	44	52	60	68	76	84	92
Bolt kit	057086	1	3	4	5	6	8	9	11	12	14	15	17
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11

FP 215 PL Horizontal collectors mounted on bitumen roof with 45° triangles in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
Sealing plate	057070	4	8	12	16	20	24	28	32	36	40	44	48
Rubber sealing	057071	8	16	24	32	40	48	56	64	72	80	88	96
Bolt kit	057086	1	3	4	5	7	8	9	10	12	13	14	15
SMP-AQ 45°	057017	2	4	6	8	10	12	14	16	18	20	22	24
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Sealing plate	057070	2	4	6	8	10	12	14	16	18	20	22	24
Rubber sealing	057071	4	8	12	16	20	24	28	32	36	40	44	48
Bolt kit	057086	1	1	2	3	4	5	6	7	8	9	10	11
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
For a lot more strength add the following (3 levels of mounting rails)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Sealing plate	057070	2	4	6	8	10	12	14	16	18	20	22	24
Rubber sealing	057071	4	8	12	16	20	24	28	32	36	40	44	48
Bolt kit	057086	1	2	3	4	5	5	7	8	8	9	11	12
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090	1	1	1	2	2	3	3	4	4	5	5	6
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
Sealing plate	057070	2	4	6	8	10	12	14	16	18	20	22	24
Rubber sealing	057071	4	8	12	16	20	24	28	32	36	40	44	48
Bolt kit	057086	1	2	4	5	6	7	9	10	11	12	14	15
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 PL Horizontal collectors mounted on bitumen roof in 1 horizontal row													
Quantity of collector/collectors	Nibe Art.nr	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
Sealing plate	057070	4	8	12	16	20	24	28	32	36	40	44	48
Rubber sealing	057071	8	16	24	32	40	48	56	64	72	80	88	96
Adaptor	057075	4	8	12	16	20	24	28	32	36	40	44	48
Screw kit	057072	1	2	3	4	4	5	6	7	8	8	9	10
Bolt kit	057086		1	1	1	2	2	2	2	3	3	3	3
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For more strength add the following	Nibe Art. Nr.	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points
Sealing plate	057070	2	4	6	8	10	12	14	16	18	20	22	24
Rubber sealing	057071	4	8	12	16	20	24	28	32	36	40	44	48
Adaptor	057075	2	4	6	8	10	12	14	16	18	20	22	24
Screw kit	057072		1	1	1	2	3	3	3	4	4	5	5
Bolt kit	057086	1		1	1	1	1	2	2	2	2	3	3
For a lot more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points	extra fix-points
Sealing plate	057070	5	10	15	20	25	30	35	40	45	50	55	60
Rubber sealing	057071	10	20	30	40	50	60	70	80	90	100	110	120
Adaptor	057075	5	10	15	20	25	30	35	40	45	50	55	60
Bolt kit	057086	1		1	2	2	2	3	3	4	4	5	6
Screw kit	057072	1	2	3	4	5	6	7	8	9	10	11	12
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 P Vertical collectors mounted on corrugated and pan tile metal roofs on 25* stands in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Universal fixing plate	057068	4	6	8	10	12	14	16	18	20	22	24	26
Adaptor	057075	4	6	8	10	12	14	16	18	20	22	24	26
Screw kit	057069	4	6	8	10	12	14	16	18	20	22	24	26
Bolt kit	057086	1	2	3	3	4	4	5	5	6	6	7	7
SMP-A 25	057016	2	3	4	5	6	7	8	9	10	11	12	13
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plate	057068		2	4	6	8	10	12	14	16	18	20	22
Adaptor	057075		2	4	6	8	10	12	14	16	18	20	22
Screw kit	057069		2	4	6	8	10	12	14	16	18	20	22
Bolt kit	057086		1	1	2	3	4	4	5	6	7	7	8
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plate	057068	2	6	10	14	18	22	26	30	34	38	42	46
Adaptor	057075	2	6	10	14	18	22	26	30	34	38	42	46
Screw kit	057069	2	6	10	14	18	22	26	30	34	38	42	46
Bolt kit	057086	1	2	3	4	5	7	8	10	11	13	14	15
SMP-A 25	057016	1	2	3	4	5	6	7	8	9	10	11	
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Universal fixing plate	057068	2	6	10	14	18	22	26	30	34	38	42	46
Adaptor	057075	2	6	10	14	18	22	26	30	34	38	42	46
Screw kit	057069	2	6	10	14	18	22	26	30	34	38	42	46
Bolt kit	057086	1	2	3	5	6	8	9	11	12	14	15	17
SMP-A 25	057016	1	2	3	4	5	6	7	8	9	10	11	
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 P Vertical collectors mounted on corrugated and pan tile metal roofs in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Universal fixing plate	057068	4	6	8	10	12	14	16	18	20	22	24	26
Adaptor	057075	4	6	8	10	12	14	16	18	20	22	24	26
Screw kit	057069	4	6	8	10	12	14	16	18	20	22	24	26
Bolt kit	057086		1	1	1	1	1	1	1	1	1	1	1
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
Extra fix points for increased snow / wind loads or in case substructure is to weak	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plate	057068		2	4	6	8	10	12	14	16	18	20	22
Adaptor	057075		2	4	6	8	10	12	14	16	18	20	22
Screw kit	057069		2	4	6	8	10	12	14	16	18	20	22
Bolt kit	057086					1	1	1	2	2	2	2	3
For a lot more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plate	057068	1	4	7	10	13	16	19	22	25	28	31	34
Adaptor	057075	1	4	7	10	13	16	19	22	25	28	31	34
Screw kit	057069	1	4	7	10	13	16	19	22	25	28	31	34
Bolt kit	057086							1	1	1	1	2	2
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 PL Horizontal collectors mounted on corrugated and pan tile metal roofs on 45° stands in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019	1	2	3	4	5	6	7	8	9	10	11	12
Universal fixing plates	057068	4	8	12	16	20	24	28	32	36	40	44	48
Adaptor	057075	4	8	12	16	20	24	28	32	36	40	44	48
Screw kit	057069	4	8	12	16	20	24	28	32	36	40	44	48
Bolt kit	057086	1	3	4	4	7	8	9	10	12	13	14	15
SMP-AQ 45°	057017	2	4	6	8	10	12	14	16	18	20	22	24
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plates	057068	2	4	6	8	10	12	14	16	18	20	22	24
Adaptor	057075	2	4	6	8	10	12	14	16	18	20	22	24
Screw kit	057069	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	2	3	4	5	6	7	8	9	10	11	12
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
For more strength add the following (Mounting rails in 3 levels)													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plates	057068	2	4	6	8	10	12	14	16	18	20	22	24
Adaptor	057075	2	4	6	8	10	12	14	16	18	20	22	24
Screw kit	057069	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	2	3	4	5	6	7	8	9	11	12	
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019	1	1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019	1	2	3	4	5	6	7	8	9	10	11	12
Universal fixing plates	057068	2	4	6	8	10	12	14	16	18	20	22	24
Adaptor	057075	2	4	6	8	10	12	14	16	18	20	22	24
Screw kit	057069	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	2	4	6	6	7	9	10	11	12	14	15
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 PL Horizontal collectors mounted on corrugated and pan tile metal roofs in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019	1	2	3	4	5	6	7	8	9	10	11	12
Universal fixing plates	057068	4	8	12	16	20	24	28	32	36	40	44	48
Adaptor	057075	4	8	12	16	20	24	28	32	36	40	44	48
Screw kit	057069	4	8	12	16	20	24	28	32	36	40	44	48
Bolt kit	057086	1	1	1	1	2	2	2	2	3	3	3	3
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For more strength add the following													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plates	057068	2	4	6	8	10	12	14	16	18	20	22	24
Adaptor	057075	2	4	6	8	10	12	14	16	18	20	22	24
Screw kit	057069	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	1	1	1	1	2	2	2	2	2	3	3
For a lot more strength add the following (Mounting rails in 3 levels)													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Universal fixing plates	057068	5	10	15	20	25	30	35	40	45	50	55	60
Adaptor	057075	5	10	15	20	25	30	35	40	45	50	55	60
Screw kit	057069	5	10	15	20	25	30	35	40	45	50	55	60
Bolt kit	057086	1	1	1	2	2	3	3	4	4	4	5	6
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019	1	1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 P Vertical collectors mounted on metal standing seam roof with 25* stands in 1 horizontal row

Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Standing seam holder	057073	4	6	8	10	12	14	16	18	20	22	24	26
Bolt kit	057086	2	3	4	5	6	7	8	9	10	11	12	13
SMP-A 25	057016	2	3	4	5	6	7	8	9	10	11	12	13
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073		2	4	6	8	10	12	14	16	18	20	22
Bolt kit	057086			2	3	4	5	6	7	8	9	10	11
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073	2	6	10	14	18	22	26	30	34	38	42	46
Bolt kit	057086	1	3	5	7	9	11	13	15	17	19	21	23
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Standing seam holder	057073	2	6	10	14	18	22	26	30	34	38	42	46
Bolt kit	057086	1	3	5	7	9	11	13	15	17	19	21	23
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 P Vertical collectors mounted on metal standing seam roof in 1 horizontal row

Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
Standing seam holder	057073	4	6	8	10	12	14	16	18	20	22	24	26
Bolt kit	057086	1	1	1	2	2	2	2	3	3	3	3	4
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073		2	4	6	8	10	12	14	16	18	20	22
Bolt kit	057086			1		1	1	2	1	2	2	3	2
For a lot more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073	1	4	7	10	13	16	19	22	25	28	31	34
Bolt kit	057086		1	1	1	2	2	3	2	3	4	4	4
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 PL Horizontal collectors mounted on metal standing seam roof with 45° triangles in 1 horizontal row

Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
Standing seam holder	057073	4	8	12	16	20	24	28	32	36	40	44	48
Bolt kit	057086	1	3	4	4	7	8	9	10	12	13	14	15
SMP-AQ 45°	057017	2	4	6	8	10	12	14	16	18	20	22	24
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	2	3	4	5	6	7	8	9	10	11	12
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	2	3	4	5	5	7	8	8	9	11	12
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
Standing seam holder	057073	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086	1	2	4	6	6	7	9	10	11	12	14	15
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 PL Horizontal collectors mounted on metal standing seam roof in 1 horizontal row

Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
Standing seam holder	057073	4	8	12	16	20	24	28	32	36	40	44	48
Bolt kit	057086	1	1	2	2	3	3	4	4	5	5	6	6
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086		1	1	1	1	2	2	2	2	3	3	3
For a lot more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
Standing seam holder	057073	5	10	15	20	25	30	35	40	45	50	55	60
Bolt kit	057086	1	2	2	3	3	4	4	5	6	7	7	8
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 P Vertical collectors mounted on roofs with universal coach bolts & adjustable triangles 42-65° in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-A1 For 1 Collector	057014	1	1	1	1	1	1	1	1	1	1	1	1
SMP-A2 Extension Set	057015		1	2	3	4	5	6	7	8	9	10	11
SMP-ZB S (2 bolts)	057021	2	3	4	5	6	7	8	9	10	11	12	13
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following (3 bolts under every triangle)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-ZB S (2 bolts)	057021	1	2	2	3	3	4	4	5	5	6	6	7
For more strength add the following (4 bolts under every triangle)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-ZB S (2 bolts)	057021	2	3	4	5	6	7	8	9	10	11	12	13
NOTE: In windy areas it is recommended that you use 25° triangles or Landscape collectors FP215PL mounted on 45° triangles.													

FP 215 P Vertical collectors mounted on roof with universal coachbolts & 25° stands in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-S1	057010	1											
SMP-S2	057011		1										
SMP-S3	057012			1	1	1	1	1	1	1	1	1	1
SMP-S ERW	057013				1	2	3	4	5	6	7	8	9
SMP-A 25	057016	2	3	4	5	6	7	8	9	10	11	12	13
SMP-ZB S	057021		1	1	1	1	1	1	1	1	1	1	1
Bolt kit	057086	1	1	1	2	2	2	2	3	3	3	3	4
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-ZB S	057021		1	2	3	4	5	6	7	8	9	10	11
Bolt kit	057086				1	1	1	1	1	2	2	2	2
SMP-A 25	057016			1	1	2	2	2	1	2	2	3	2
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-ZB S	057021	1	3	5	7	9	11	13	15	17	19	21	23
Bolt kit	057086			1		1	2	2	2	3	3	4	3
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-S1	057010	1											
SMP-S2	057011		1										
SMP-S3	057012			1	1	1	1	1	1	1	1	1	1
SMP-S ERW	057013				1	2	3	4	5	6	7	8	9
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
SMP-ZB S	057021		1	2	3	4	5	6	7	8	9	10	11
Bolt kit	057086		1	2	2	3	4	5	5	6	7	8	8

FP 215 P Vertical collectors mounted on roof with universal coachbolts in 1 horizontal row													PICTURE	
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs	
SMP-SHS1	057003	1												
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6	
SMP-SHS3	057005			1		1		1		1		1		
SMP-V	057019				1	1	2	2	3	3	4	4	5	
SMP-S1	057010	1												
SMP-S2	057011		1											
SMP-S3	057012			1	1	1	1	1	1	1	1	1	1	
SMP-S ERW	057013				1	2	3	4	5	6	7	8	9	
Extra fix points for increased snow / wind loads or in case substructure is to weak														
For more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	
SMP-ZB S	057021		2	3	4	5	6	7	8	9	10	11	12	
For a lot more strength add the following (Mounting rails in 3 levels)														
For a lot more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	
SMP-ZB S	057021	1	3	5	6	8	9	11	12	14	15	17	18	
SMP-SHS1	057003	1	1			1	1			1	1			
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3	
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3	
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1	
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6	

FP 215 P Horizontal collectors mounted on roof with universal coachbolts & 45° stands in 1 horizontal row													PICTURE	
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs	
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12	
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11	
SMP-S1	057010	1												
SMP-S2	057011		1											
SMP-S3	057012			1	1	1	1	1	1	1	1	1	1	
SMP-S ERW	057013			1	1	2	3	4	5	6	7	8	9	
SMP-ZB S	057021		2	3	4	5	6	7	8	9	10	11	12	
Bolt kit	057086	1	1	2	2	3	3	4	4	5	5	6	6	
SMP-AQ 45°	057017	2	4	6	8	10	12	14	16	18	20	22	24	
Extra fix points for increased snow / wind loads or in case substructure is to weak														
For a little more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	
SMP-ZB S	057021	1	2	3	4	5	6	7	8	9	10	11	12	
Bolt kit	057086	1	1	1	1	2	2	2	2	3	3	3	3	
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12	
For more strength add the following (Mounting rails in 3 levels)														
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	
SMP-ZB S	057021	1	2	3	4	5	6	7	8	9	10	11	12	
Bolt kit	057086	1	1	2	2	3	3	4	4	5	5	6	6	
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12	
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6	
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6	
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1	
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6	
For a lot more strength add the following (Mounting rails in 4 levels)														
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12	
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11	
SMP-S1	057010	1												
SMP-S2	057011		1											
SMP-S3	057012			1	1	1	1	1	1	1	1	1	1	
SMP-S ERW	057013			1	1	2	3	4	5	6	7	8	9	
SMP-ZB S	057021	1	2	3	4	5	6	7	8	9	10	11	12	
Bolt kit	057086	1	2	3	4	5	6	7	8	9	10	11	12	
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12	

FP 215 PL Horizontal collectors mounted on roof with coachbolts in 1 horizontal row													
Quantity of collector/collectors		1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
	Nibe Art. Nr.												
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
SMP-S1	057010	1											
SMP-S2	057011		1										
SMP-S3	057012			1	1	1	1	1	1	1	1	1	1
SMP-S ERW	057013				1	2	3	4	5	6	7	8	9
SMP-ZB S	057021		2	3	4	5	6	7	8	9	10	11	12
Extra fix points for increased snow / wind loads or in case substructure is to weak													
	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
For more strength add the following													
SMP-ZB S	057021	1	2	3	4	5	6	7	8	9	10	11	12
For a lot more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-ZB S	057021	3	5	8	10	13	15	18	16	22	25	28	30
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6

FP 215 P Vertical collectors mounted on wall on 65° triangles in 1 horizontal row (25° triangles upside down)

Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-A 25	057016	2	3	4	5	6	7	8	9	10	11	12	14
Bolt kit (M10)	057086		1	1	1	1	1	1	1	1	1	1	1
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For a little more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1				1	1			1	1		
SMP-SHS2	057004		1	1	1	1	1	2	2	2	2	3	3
SMP-V	057019			1	1	1	2	2	2	3	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1		1		1		1		1		1	
SMP-SHS2	057004		1	1	2	2	3	3	4	4	5	5	6
SMP-V	057019			1	1	2	2	2	2	3	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	2	3	4	5	6	7	8	9	10	11
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
Bolt kit (M10)	057086						1	1	1	1	2	2	2
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
Bolt kit (M10)	057086			1	1	2	2	3	3	4	4	5	5
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 P Vertical collectors mounted vertically on wall in 1 horizontal row

Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1		1		1		1		1		1	
SMP-SHS2	057004		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak

For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1		1		1		1		1		1	
SMP-SHS2	057004		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 PL Horizontal collectors mounted vertically on wall in 1 horizontal row (On high buildings or windy area its necessary have extra fixpoints)													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

Extra fix points for increased snow / wind loads or in case substructure is to weak													
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9

FP 215 PL Horizontal collectors mounted on wall with 45° triangles in 1 horizontal row (On high buildings or windy area its necessary have extra fixpoints)													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
Bolt kit	057086		1	1	1	2	2	2	2	3	3	3	3
SMP-AQ 45°	057017	2	4	6	8	10	12	14	16	18	20	22	24

Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
Bolt kit	057086	1		1	1	1	1	2	2	2	2	3	3
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
Bolt kit	057086	1	1	2	2	2	3	4	4	4	5	5	6
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
Bolt kit	057086	1	2	3	4	5	6	7	8	9	10	11	12
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12

FP 215 P Vertical collectors mounted on Ground on 25° stands in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-A 25	057016	2	3	4	5	6	7	8	9	10	11	12	13
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
Bolt kit	057086		1	1	1	1	1	1	1	1	1	1	1
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
Bolt kit	057086					1	1	1	1	2	2	2	3
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
Bolt kit	057086					1	1	2	2	2	3	3	3
SMP-SHS1	057003	1	1			1	1			1	1		
SMP-SHS2	057004			1	1	1	1	2	2	2	2	3	3
SMP-V	057019		1	1	1	1	2	2	2	2	3	3	3
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS1	057003	1											
SMP-SHS2	057004		1		2	1	3	2	4	3	5	4	6
SMP-SHS3	057005			1		1		1		1		1	
SMP-V	057019				1	1	2	2	3	3	4	4	5
SMP-A 25	057016		1	2	3	4	5	6	7	8	9	10	11
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
Bolt kit	057086			1	1	2	2	3	3	4	4	5	5

FP 215 P Vertical collectors mounted on ground with adjustable triangles 42-65° in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-A1 for 1 Collector	057014	1	1	1	1	1	1	1	1	1	1	1	1
SMP-A2 Extension Set for each further Collector	057015		1	2	3	4	5	6	7	8	9	10	11
NOTE: In windy areas it is recommended that you use 25° triangles or Landscape collectors FP215PL mounted on 45° triangles.													

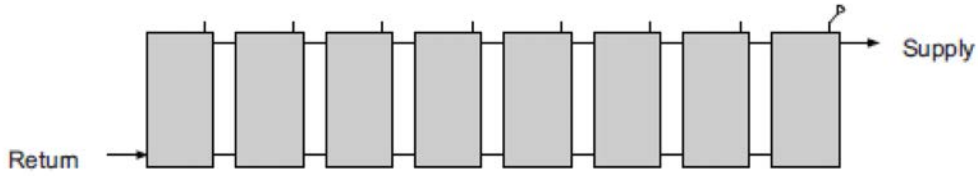
FP 215 PL Horizontal collectors mounted on ground with 45° triangles in 1 horizontal row													
Quantity of collector/collectors	Nibe Art. Nr.	1 pcs	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs	7 pcs	8 pcs	9 pcs	10 pcs	11 pcs	12 pcs
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
SMP-AQ 45°	057017	2	4	6	8	10	12	14	16	18	20	22	24
Bolt kit	057086		1	1	1	2	2	2	2	3	3	3	3
Extra fix points for increased snow / wind loads or in case substructure is to weak													
For a little bit more strength add the following	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
Bolt kit	057086	1	1	1	1	2	2	2	2	3	3	3	3
For more strength add the following (Mounting rails in 3 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
Bolt kit	057086			1	1	1	1	2	2	2	2	2	2
SMP-SHS2	057004	1	1	2	2	3	3	4	4	5	5	6	6
SMP-V	057019		1	1	2	2	3	3	4	4	5	5	6
1 collector fixing set	057087	1	1	1	1	1	1	1	1	1	1	1	1
Collector extension set	057090		1	1	2	2	3	3	4	4	5	5	6
For a lot more strength add the following (Mounting rails in 4 levels)	Nibe Art. Nr.	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points	Extra fix-points
SMP-SHS2	057004	1	2	3	4	5	6	7	8	9	10	11	12
SMP-V	057019		1	2	3	4	5	6	7	8	9	10	11
1 collector fixing set	057087	1											
2 collector fixing set	057088		1										
3 collector fixing set	057089			1	1	1	1	1	1	1	1	1	1
Collector extension set	057090				1	2	3	4	5	6	7	8	9
SMP-AQ 45°	057017	1	2	3	4	5	6	7	8	9	10	11	12
Bolt kit	057086	1	2	3	4	5	6	7	8	9	10	11	12

Recommended flow:

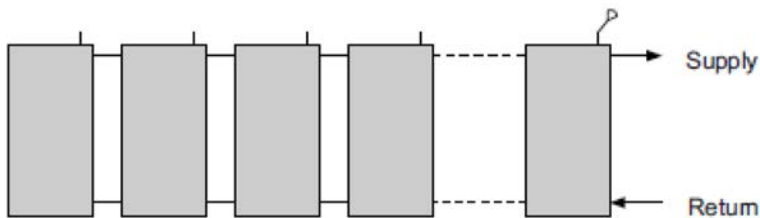
Min flow: 0.35 minutes litres/m²

Max flow: 0.75 minutes litres/m²

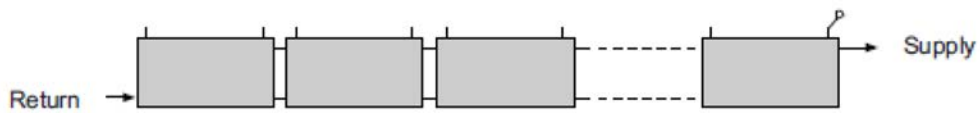
Parallel two sided connection of vertical solar panels



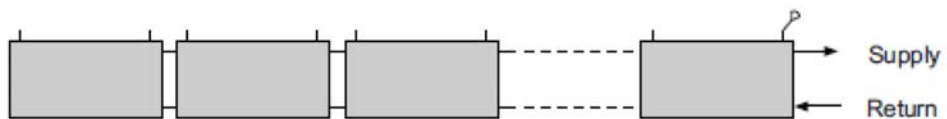
Parallel single sided connection of vertical solar panels



Parallel two sided connection of horizontal solar panels



Parallel single sided connection of horizontal solar panels



NIBE Energy Systems - Solar
 Guides for dimensioning of solar pipes






Dimensioning of pipes with 6 m standard pump	
Pipe dimensions	Max number of solar panels
10-15 m x 16 mm	7 (two sided connection)
20-25 m x 16 mm	6 (two sided connection)
10-15 m x 16 mm	6 (single sided connection)
20-25 m x 16 mm	5 (single sided connection)
10-15 m x 20 mm	10 (two sided connection)
20-25 m x 20 mm	9 (two sided connection)
10-15 m x 20 mm	8 (single sided connection)
10-15 m x 20 mm	7 (single sided connection)
10-15 m x 25 mm	14 (two sided connection)
20-25 m x 25 mm	13 (two sided connection)
10-15 m x 25 mm	10 (single sided connection)
20-25 m x 25 mm	9 (single sided connection)






Dimensioning of pipes with 8 m standard pump	
Pipe dimensions	Max number of solar panels
10-15 m x 16 mm	8 (two sided connection)
20-25 m x 16 mm	7 (two sided connection)
10-15 m x 16 mm	7 (single sided connection)
20-25 m x 16 mm	6 (single sided connection)
10-15 m x 20 mm	12 (two sided connection)
20-25 m x 20 mm	10 (two sided connection)
10-15 m x 20 mm	9 (single sided connection)
20-25 m x 20 mm	8 (single sided connection)
10-15 m x 25 mm	16 (two sided connection)
20-25 m x 25 mm	15 (two sided connection)
10-15 m x 25 mm	11 (single sided connection)
20-25 m x 25 mm	10 (single sided connection)



Type	Info	Art.no
Solar collectors		
FP 215 P	The P (Premium Portrait) panel is mounted in a vertical way. Is a installer friendly light weight collector with high efficiency. This collector has a rich variety of accessories and fixing possibilities. This collector is easy to install due to the quick connection system.	057001
FP 215 PL	The PL (Premium Landscape) is mounted horizontally. Is a installer friendly light weight collector with high efficiency. This collector has a rich variety of accessories and fixing possibilities. This collector is easy to install due to the quick connection system.	057002


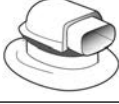


Type	Info	Art.no
Pump stations & heat exchanger		
SPS 10	Solar pump station SPS 10 has 3/4" male threads, a low-energy solar pump, de-aerator, thermometers, adjusting valve, safety valve, pressure gauge, isolating valves and double check valves.	057027
SPS 20	Solar pump station SPS 20 has 22 mm clamp fittings, a low-energy solar pump, de-aerator, thermometers, adjusting valve, safety valve, pressure gauge, isolating valves and double check valves.	057038
SCS 10	Set for connecting the solar expansion vessel with the solar pump station. 1 wall bracket for hanging the vessel, up to 24 L. 1 flexible stainless pipe with fittings. 1 fitting for the vessel with a 2 way check valve for easy servicing.	057029
SHE 10	SHE 10 is a compact, powerful and isolated heat exchanger, with internal connections and connection pipes. SHE 10 fits directly under the Solar pump station SPS 20. SHE 10 can transfer energy well from up to 6 FP215 collectors.	057028
MCU 10	Nibe MCU 10 is a multi charging unit that limits the charging temp to 65°C. MCU 10 can be used within several applications.	067128
Charging pump	Spare pump for MCU 10. This pump can also be used between the tank and the heat exchanger SHE10. Recommended connecting parts: Union nut no:424319, Flanged copper pipe no:008721.	424334
Union nut	To be used together with flanged copper pipe no:008721. Used together, they become a very compact pump union fitting. Fits with pump no:424334. G32 pump connection.	424319
Check valve	Check valve to be used for example between a tank and heat exchanger SHE 10. This check valve fits into the flanged copper pipe no: 008721	424285
Gasket	Spare gaskets for pump in MCU 10	033330
Flanged copper pipe	Flanged copper pipe for union nut (spare part) To be used together with union nut no:424319. Used together, they become a very compact pump union fitting. Fits with pump no: 424334. G32 pump connection	008721

Type	Info	Art.no
Connection parts, installation parts and other installation equipment		
SVP-FD 3/4"	Quick connections with O-rings. 2 x 3/4" fittings with male thread, for 16 mm solar pipes. 2 x plugs for tight and slim connection. 4 x safety clamps. 1 set is needed for every row of collectors.	057024
SVP-FD 1"	Quick connections with O-rings. 2 x 1" fittings with male thread, for 20 mm solar pipes. 2 x plugs for tight and slim connection. 4 x safety clamps. 1 set is needed for every row of collectors.	057023
SVP-WR	2 Quick fittings with built in compensating function. 2 safety clamps. Connections 2 collectors.	057025
Solar filling station	A professional mobile solar filling station for reliable installations. Air filled rubber wheels. 30 litre mixing barrel. Comes with hoses and a fine filter in order to remove dirt during commissioning. Ensures that almost every air bubble gets out of the system.	057098
Brass bushing	These high quality brass bushings can withstand the tough circumstances that occur in solar systems. 1" - 3/4" (25x20) 1/4" - 1" (32x25)	224038 224039
Brass elbows	These high quality brass elbows can withstand the tough circumstances that occur in solar systems. 3/4" 1"	224036 224037
High temp thread sealing glue	Perfect for solar applications. +230°C 50 ml.	033555
Solar glycol	Solar glycol 54 vol % (-35 °C) 25 litre article number: 10 litre article number:	434795 434796
Solar expansion vessels		
Solar vessel	Solar expansion vessel for max pre-pressure of 8 bar. Comes with a pre-pressure of 3 bar.	
	Solar vessel, 18 litre Solar vessel, 24 litre Solar vessel, 35 litre Solar vessel, 50 litre Solar vessel, 80 litre Solar vessel, 100 litre Solar vessel, 200 litre	524306 524166 224044 224045 224046 224047 N/A

Type	Info	Art.no
Solar controlling devices		
SOLAR 40	The Solar 40 accessory is the perfect device for use with the NIBE F1145 and NIBE VPAS tank arrangement. The Solar 40 controlling accessory enables all the solar controlling functions to be done by the F1145 ground source heat pump, therefore, with the Solar 40 accessory, there is not a requirement to have a separate solar controller.	067084 
SOLAR 41	Solar 41 is a solar controlling device for enabling the NIBE heat pumps 370 & 470 to control a solar system installed with the UKVS tank. Solar 41 enables both hot tap water and domestic heating from the solar collectors. For more info please look at the solar pack for 370/470 & the UKVS tank.	067127 
SOLAR 42	The Solar 42 accessory is the perfect device for use with the NIBE F1145 and NIBE VPBS tank arrangement. The Solar 42 controlling accessory enables all the solar controlling functions to be done by the F1145 ground source heat pump, therefore, with the Solar 42 accessory, there is not a requirement to have a separate solar controller.	067153 
SCU 10	SCU 10 is an universal external solar controller with 8 pre-defined systems. 4 sensors included (one high temp for the solar collectors), 5 inputs 3 outputs. 2 triac outputs allowing the option to speed control the solar pump.	518467 
SRB 22	Relay box needed with the solar tank UKVS connected to NIBE Split in order to block compressor and immersion heater when solar energy is available.	067109 

Type	Info	Art.no
Solar ready storage tanks / cylinders		
NIBE UKVS 230	NIBE UKVS 230 is an accumulator tank with coil for solar panels. UKVS 230 is intended to be used for heat storage when a smaller heat pump is docked with solar panels. It is also possible to dock another heat source. The UKVS 230 has a total volume of 230 litres.	080320 
NIBE VVM 500	NIBE VVM 500 is part of a new generation of products for heating and domestic hot water. Heat production is reliable and economical with integrated hot water coil, circulation pumps, solar coil, control system and immersion heater.	069400 
NIBE VPBS 300	Hot tap water accumulator tank with solar coil and charging coil for heat pumps. VPBS is a new type of water heater that is suitable for connection to and in combination with heat pumps and solar panels. For a truly comprehensive installation NIBE VPBS 300, with it's integrated design, is best combined with NIBE F1145.	083012 
NIBE Compact SOL	NIBE COMPACT SOL 300 is a copper lined electric water heater designed to RSK6861623 run on solar energy.	
NIBE VPAS 300/450	NIBE VPAS is an accumulator tank optimally prepared for connection to heat pumps in combination with solar panels.	087720 (CU) 087710 (E) 

Solar pipes (Twin pipes with high temp insulation and sensor cable)		
Flexible solar pipes	Stainless, flexible, insulated "twin" solar pipes that are easy to install. Insulated with high temp cell rubber. The pipe pack includes a solar sensor cable and 4 pipe and connections.	
	2 x 16 mm x 10 m incl. fittings	057030
	2 x 16 mm x 15 m incl. fittings	057031
	2 x 16 mm x 20 m incl. fittings	057032
	2 x 16 mm x 25 m incl. fittings	057033
	2 x 20 mm x 10 m incl. fittings	057083
	2 x 20 mm x 15 m incl. fittings	057034
	2 x 20 mm x 20 m incl. fittings	057035
	2 x 20 mm x 25 m incl. fittings	057084
	2 x 25 mm x 15 m incl. fittings	057099
2 x 25 mm x 25 m incl. fittings	057100	
Solar pipe fitting set	Extra fitting spare sets for solar pipes For 16 mm solar pipes (4 pipe ends) 057091 For 20 mm solar pipes (4 pipe ends) 057092 For 25 mm solar pipes (4 pipe ends) 057101	

Solar pass through sets		
Solar pass through set	Solar pass through set for most standard pan tile roofs.	
	Pan tiles, black colour Pan tiles, red colour	057076 057077
Solar pass through set	Solar pass through set classic, for bitumen and standing metal seam roofs. For Paper/Bitumen/Metal seam roofs, Black colour	
		057078
Solar pass through set	Solar pass through set for "metal pan tile" roofs. Black colour	
	Red colour	057079 057080
Solar pass through set (Universal)	Solar pass through set universal, for pan tiles with one "wave" and most other odd pan tile types. Black colour	
	Red colour	057081 057082

Type	Info	Art.no	Type	Info	Art.no
Collector fixing parts					
SMP-SHS 1	Mounting rail set for 1 collector. 2 pcs x 1 metre.	057003	SMP-A 25°	Triangle set 25° for the 215P collector (Only available for the vertical collector 215 P) . (The back arm can easily be cut of for smaller angle)	057016
SMP-SHS 2	Mounting rail set for 2 collectors. 2 pcs x 2 metre.	057004	SMP-A Q 45°	Triangle set 45° for the FP 215 PL (Only available for the horizontal collector 215 PL) (The back arm can easily be cut of for smaller angle)	057017
SMP-SHS 3	Mounting rail set for 3 collectors. Including: 2 pcs x 1 metre 2 pcs x 2 metre 1 x 057019 (for connection of 2 rails)	057005	SMP-S2	Universal fixing set for 2 collectors. Set of 4 coach bolts, 4 collector hanging hooks and fixing material.	057011
SMP-V	Necessary from 4 collectors upwards with 215 P. Necessary from 2 collectors upwards with 215 PL.	057019	SMP-S3	Universal fixing set for 3 collectors. Set of 6 coach bolts, 6 collector hanging hooks and fixing material.	057012
SMP-DS1	Set for 1 collector to be mounted on pan tile roofs. (For connection of 2 rails) 4 adjustable standard hooks, 2 collector hanging hooks and fixing parts.	057006	SMP-S ERW	Universal fixing extension set for each additional collector after the 3rd collector. 2 stair bolts, 2 collector hanging hooks, fixing material.	057013
SMP-DS2	Set for 2 collectors to be mounted on pan tile roofs. 4 adjustable standard hooks, 4 collector hanging hooks and fixing parts.	057007	SMP-ZB S	2 coach bolts, useful when more fix points are preferred.	057021
SMP-DS3	Set for 3 collectors to be mounted on pan tile roofs. 6 adjustable standard hooks, 6 collector hanging hooks and fixing parts.	057008	Universal fixing plates	Universal fixing plate, for mounting on corrugated metal roofs or metal "pan tile" roofs. Need to be used together with screw kit 057069	057068
SMP-DS ERW	Extension set for each additional collector after the 3rd collector. For mounting on pan tile roofs. 2 adjustable standard hooks, 2 collector hanging hooks and fixing material.	057009	Screw kit	Screw kit for the universal fixing plate. 1 set / plate (057068).	057069
Screw kit	Adjustable standard hooks, 18 pcs 6x50 mm stainless wood screws.	057039	Adaptor	For universal fixing plates.	057075
SMP-ZB DS	Set of 2 adjustable standard hooks for pan tile roofs. Connection material.	057020	1 collector fixing set	Fixing set for 1 collector.	057087
SMP-S1	Universal fixing set for 1 collector. Set of 4 coach bolts, 2 collector hanging hooks and fixing material.	057010	2 collector fixing set	Fixing set for 2 collectors.	057088
Standing seam holder	Standing seam holder to be clamped on standing metal seamed roofs. (double seams)	057073	3 collector fixing set	Fixing set for 3 collectors.	057089
Bolt Kit	Bolt kit with M10 bolts, nuts x 8 pcs and washers x 16 pcs.	057086	Extension collector fixing set	Extension fixing set for each additional collector after the 3rd collector.	057090
Sealing plate	Sealing plate for fixing into bitumen roofs.	057070	SMP-A1	Adjustable stand set 42-65° for the first collector. (OnWith SMP-1 it is necessary to mount in the correct position).	057014
Rubber sealing	For sealing plates, 2 off / holder	057071	SMP-A2	Adjustable stand set 42-65°, extension set for each additional collector. Only for the vertical FP 215P collectors. (Not recommended for windy areas)	057015
Screw kit	Screw kit to be used with elevated sealing plates (057070) on bitumen roofs. 1 kit / 5 sealing plates. 10 pcs 10x20 hot dip galvanized bolts.	057072	SMP-ID 2	Basic set for in roof for 2 collectors. For most pan tile roofs. In roof mounting of 2 collectors.	057041
			SMP-ID 1	Extension set for each additional collector. For most pan tile roofs.	057040