boilersp@mail.ru





Hacocы SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru

Dear Partner,

SUNTEC benefit from more than eighty years of experience of producing fuel units and offer the largest and best selling range of the world.

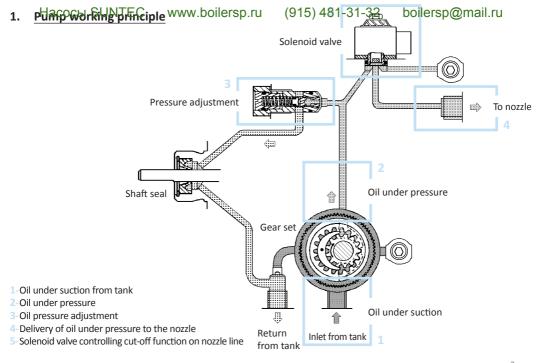
Our commitment is to offer you the best fuel unit in terms of efficiency, reliability and service life.

This manual describes the operation and installation of SUNTEC low flow oil pumps. Conversion tables (replacement of models from other pump manufacturers by SUNTEC models), presentation of our Universal AUV pump and a Frequently Asked Question section will give you answers to the questions you face about the maintenance and troubleshooting of your installations.

We hope this manual will help you in your daily service.

Your SUNTEC Team

1.	Pump working principle	2
2.	SUNTEC pump identification	3
3.	Conversion ECKERLE -> SUNTEC	5
1.	Conversion DANFOSS -> SUNTEC	15
5.	Conversion DELTA -> SUNTEC	47
5.	Conversion SUNTEC AS, AL, AE -> SUNTEC AUV	53
7.	Spare parts and accessories	57
3.	Connections	65
9.	One-pipe \leftrightarrow two-pipe configuration	67
10.	Pipe Dimensions	68
11.	FAOs	71



2. รูปดาจอย เมษาให้เดิดเกี่ยวสารเหน (915) 481-31-32 boilersp@mail.ru

2.1 Choice of SUNTEC pump configuration (shaft rotation and nozzle outlet)

A : Pump seen from shaft end, clockwise rotation, right hand nozzle outlet. Example : AL 35 A 9526 6P 0700
 B : Pump seen from shaft end, clockwise rotation, left hand nozzle outlet. Example : AN 67 B 1335 6P
 C : Pump seen from shaft end, anti-clockwise rotation, left hand nozzle outlet. Example : AS 47 C 1538 6P 0700
D : Pump seen from shaft end, anti-clockwise rotation, right hand nozzle outlet. Example : AE 47 D 1385 6P

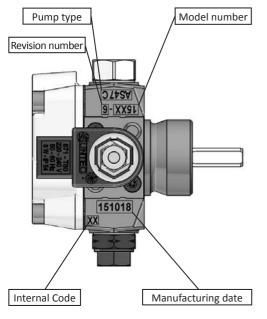
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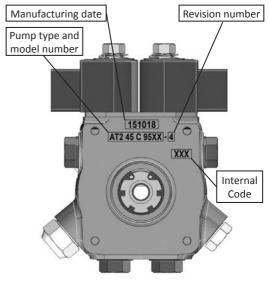
This codification is valid for any SUNTEC pump except A2L pump.

In this case, the configuration is determined by the shaft rotation and the side pressure gauge port location.

TA, TAR and T pumps exist only in A and C configurations.

2.2 Marchigo SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru





B. cปลงอรรษกระไม่เรียนอักเรียน -> รบพพะอู่oilersp.ru (915) 481-31-32 boilersp@mail.ru

ECKERLE Old ref.	ECKERLE New ref.	SUNTEC	Remarks
UNI 1.2 L5 L14-50	UNI 2.12 L1 L14	AL 35 C 9528 6P 0700 AUV 47 L 9857 6P 0700	
UNI 1.2 L1 L64-50	UNI 2.12 L1 L64	AL 35 C 9540 4P 0700 AUV 47 L 9857 6P 0700	AUV: + Inlet and return connections G1/8-G1/4
UNI 1.2 L5 M14-50	UNI 2.12 L1 M14	AL 35 C 9528 6P 0700 AUV 47 L 9857 6P 0700	
-	UNI 2.12 L1 M64	AL 35 C 9540 4P 0700 AUV 47 L 9857 6P 0700	AUV: + Inlet and return connections G1/8-G1/4
UNI 1.2 L5 M64-50-W	UNI 2.12 L1 M64-65	AL 35 C 9540 4P 0700 AUV 47 L 9857 6P 0700	AUV: + Inlet and return connections G1/8-G1/4
-	UNI 2.12 L6 M14	AL 65 C 9589 6P 0700	
UNI 1.2 L62 M14-01-W	UNI 2.12 L6 M14-65	AL 65 C 9589 6P 0700	
UNI 1.72 L62 L14-W	UNI 2.17 L6 M14-65	AL 75 CK 9534 5P 0700	Specific model
-	UNI 2.2 L5 S74-05	AS 47 D 1550 6P 0700 AUV 47 L 9857 6P 0700	AS: G 1/4" Inlet and return
-	UNI 2.4 L5 M2	AP 47 C 7556 4P 0700	

Hage Cold ref.	C weekeboelersp.r New ref.	u (915) 481-31-32 SUNTEC	boilersp@mail.ru Remarks
UNI 1.42 L6 A64-W	UNI 2.42 L5 L64-65	AT2 45 C 9541 4P 0700	
UNI 2.42 R5 R70-ET	UNI 2.42 R5 R70	AT2 45 A 9574 4P 0700	
UNI 2.1 G22 L1 L10	UNI-E 2.1 G22	AN 47 C 1342 6P	AN: Shaft with one flat (1), no top pressure gauge port
UNI 2.1 G41-21 L1 L10	UNI-E 2.1 G41	AN 47 C 1342 6P	AN: Shaft with one flat (1)
-	UNI-E2.1 G41-13	AE 47 C 1387 6P AUV 47 L 9857 6P 0700	AE: Shaft with one flat (1) AUV: + Kit 991401
-	UNI-E 2.1 L1 L10	AN 47 C 1342 6P	AN: Shaft with one flat (1)
-	UNI-E 2.1 L1 L10-22	AN 47 C 1342 6P	AN: Shaft with one flat (1)
UNI 2.1 L1 L44-H1-21	UNI-E 2.1 L1 L10-30	AN 47 C 1342 6P	AN: Shaft with one flat (1), no top pressure gauge port
UNI 2.1 L1 L44-21	UNI-E 2.1 L1 L14	AN 47 C 1342 6P	
UNI 1.1 L5 L64 -10	UNI-E 2.1 L1 L64	AN 47 C 1342 6P	AN: G1/4" Inlet and return
UNI 1.1 L5 L64-M1	UNI-E 2.1 L1 L64-21	AN 47 C 1342 6P	AN: G1/4" Inlet and return
UNI 2.1 L5 L40-21	UNI-E 2.1 L5 L10	AN 47 C 1342 6P	AN: Shaft with one flat (1)
UNI 2.1 L5 L42-21	UNI-E 2.1 L5 L12	AN 47 C 7228 4P	AN: Shaft with one flat (1)

⁽¹⁾ ECKERLE model with 2 flats on the shaft; change coupling.

Hacoch SUNTE	C www.boilersp ECKERLE	(0.0) (0.0)	
Old ref.	New ref.	SUNTEC	Remarks
UNI 2.1 L5 L44-21-05	UNI-E 2.1 L5 L14	AN 47 C 1342 6P	
-	UNI-E 2.1 L5 L14-13	AE 47 C 1387 6P AUV 47 L 9857 6P 0700	AUV: + Kit 991401
UNI 2.1 L5 R44-21	UNI-E 2.1 L5 R14	AN 47 D 1339 6P	
-	UNI-E 2.1 L5 R14-13	AE 47 D 1385 6P AUV 47 L 9857 6P 0700	
UNI 2.1 L5 R94-05	UNI-E 2.1 L5 R74	AN 47 D 1339 6P	AN: G1/4" Inlet and return, Pressure range 7 - 14 bars
-	UNI-E 2.1 L6 L16-11	AE 67 C 7285 4P	
UNI 2.1 L6 L54-05	UNI-E 2.1 L6 L24	AN 67 C 1336 6P	AN: Pressure range 7 - 14 bars
UNI 2.1 R1 L40	UNI-E 2.1 R1 L10	AN 47 B 7327 4P	AN: Shaft with one flat (1)
UNI 2.1 R1 L44-21	UNI-E 2.1 R1 L14	AN 47 B 7327 4P	
UNI 2.1 R5 L42-UI-21	UNI-E 2.1 R5 L12-80	AN 47 BK 7227 4P	AN: Shaft with one flat (1)
UNI 2.1 R5 L43-UI-21	UNI-E 2.1 R5 L13-80	AN 47 B 7217 4P	AN: Shaft with one flat (1)
UNI 2.1 R5 L44-21	UNI-E 2.1 R5 L14	AN 47 B 7327 4P	
UNI 2.1 R5 L54	UNI-E 2.1 R5 L24	AN 47 B 1395 6P	

Hagekekus UNTE(Old ref.	WEEKERDE ersp.r New ref.	u (915) 481-31-32 SUNTEC	boilersp@mail.ru Remarks
UNI 2.1 R5 R44-21-05	UNI-E 2.1 R5 R14	AN 47 A 1326 6P	
UNI 2.1 R5 R45-21	UNI-E 2.1 R5 R15	AN 47 A 7226 4P	
UNI 2.1 R5 R80-05	UNI-E 2.1 R5 R60	AN 47 A 1326 6P	AN: Shaft with one flat (1), G1/4" Inlet and return
UNI 2.1 R6 L54-05	UNI-E 2.1 R6 L24	AN 67 B 1335 6P	
UNI 2.1 R6 L25	UNI-E 2.1 R6 L25	AN 67 B 7287 4P	
-	UNI-E 2.2 L1 L10	AS 47 C 1538 6P 0700 AUV 47 L 9857 6P 0700	AS: Shaft with one flat (1)
UNI 2.2 L1 L14-21	UNI-E 2.2 L1 L14	AS 47 C 1538 6P 0700 AUV 47 L 9857 6P 0700	
UNI 2.2 L1 L16-K1-21	UNI-E 2.2 L1 L16-10	AS 47 C 7434 4P 0700 AUV 47 L 9857 6P 0700	AUV: + Flange adaptor Ø32-Ø54 (Ref. 3719003)
UNI 2.2 L1 R14-C1-21	UNI-E 2.2 L1 R14-12	AS 47 D 1539 6P 0700 AUV 47 L 9857 6P 0700	
UNI 2.2 L5 L42	UNI-E 2.2 L5 L12	AS 47 C 7438 4P 0700 AUV 47 L 9857 6P 0700	AS: Shaft with one flat (1) AUV: + Hub adaptor Ø32-Ø54 (Ref. 3759833)

⁽¹⁾ ECKERLE model with 2 flats on the shaft; change coupling.

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ECKERLE Old ref.	ECKERLE New ref.	SUNTEC	Remarks
UNI 2.2 L5 L14-21-05	UNI-E 2.2 L5 L14	AS 47 C 1538 6P 0700 AUV 47 L 9857 6P 0700	
UNI 2.2 L5 L14-Q-21	UNI-E 2.2 L5 L14-92	AS 47 C 1538 6P 0700 AUV 47 L 9857 6P 0700	AUV: + Hub adaptor Ø32-Ø54 (Ref. 3759833)
UNI 2.2 L5 L15-21-05	UNI-E 2.2 L5 L15	AS 47 C 7438 4P 0700 AUV 47 L 9857 6P 0700	AUV: + Hub adaptor Ø32-Ø54 (Ref. 3759833)
-	UNI-E 2.2 L5 L60	AS 47 C 1538 6P 0700 AUV 47 L 9857 6P 0700	AS: Shaft with one flat (1), G1/4" Inlet and return
UNI 2.2 L5 M14-C1	UNI-E 2.2 L5 M14-12	AS 47 C 1538 6P 0700 AUV 47 L 9857 6P 0700	
UNI 2.2 L5 S20-21	UNI-E 2.2 L5 S20	AS 47 D 1557 6P 0700 AUV 47 L 9857 6P 0700	AUV: Shaft with one flat (1)
UNI 2.2 L5 S20-21-BUD	UNI-E 2.2 L5 S20-BUD	AS 47 D 1557 6P 0700 AUV 47 L 9857 6P 0700	AUV: Shaft with one flat (1)
-	UNI-E 2.2 L5 S74	AS 47 D 1550 6P 0700 AUV 47 L 9857 6P 0700	AS: G 1/4" Inlet and return
-	UNI-E 2.2 L6 L14	AS 67 C 1570 6P 0700	AS: Pressure range 10 - 15 bars

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ECKERLE Old ref.	ECKERLE New ref.	SUNTEC	Remarks
UNI 2.2 L6 L16-K1	UNI-E 2.2 L6 L16-10	AS 67 C 7456 4P 0700	AS: pressure range 10 - 15 bars
UNI 2.2 L6 L24-05	UNI-E 2.2 L6 L24	AS 67 C 1570 6P 0700	AS: pressure range 10 - 15 bars
-	UNI-E 2.2 L6 LR14-61	A2L 65 D 9703 4P 0700	
-	UNI-E 2.2 L7 L26	AL 95 C 9412 4P 0700	
-	UNI-E 2.2 L7 LR14-61	A2L 95 D 9702 4P 0700	
UNI 2.2 R1 L40	UNI-E 2.2 R1 L10	AS 47 B 1537 6P 0700 AUV 47 L 9856 6P 0700	AS: Shaft with one flat (1)
UNI 2.2 R1 M14-21-05	UNI-E 2.2 R1 M14	AS 47 B 1537 6P 0700 AUV 47 L 9856 6P 0700	
UNI 2.2 R1 R24	UNI-E 2.2 R1 R24	AS 47 A 1536 6P 0700 AUV 47 L 9856 6P 0700	AS: pressure range 7 - 14 bars
-	UNI-E 2.2 R1 S14	AS 47 A 1536 6P 0700 AUV 47 L 9856 6P 0700	

⁽¹⁾ ECKERLE model with 2 flats on the shaft; change coupling.

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ECKERLE Old ref.	ECKERLE New ref.	SUNTEC	Remarks
UNI 2.2 R5 L14-21-05	UNI-E 2.2 R5 L14	AS 47 B 1537 6P 0700 AUV 47 L 9856 6P 0700	
-	UNI-E 2.2 R5 M14	AS 47 B 1537 6P 0700 AUV 47 L 9856 6P 0700	
UNI 2.2 R5 M45	UNI-E 2.2 R5 M15	AS 47 B 1537 6P 0700 AUV 47 L 9856 6P 0700	AS: Flange mounting Ø32mm
UNI 2.2 R5 R14-21	UNI-E 2.2 R5 R14	AS 47 A 1536 6P 0700 AUV 47 L 9856 6P 0700	
UNI 2.2 R5 R60-21	UNI-E 2.2 R5 R60	AS 47 A 1536 6P 0700 AUV 47 L 9856 6P 0700	AS: Shaft with one flat (1), G1/4" Inlet and return
-	UNI-E 2.2 R5 S14	AS 47 A 1536 6P 0700 AUV 47 L 9856 6P 0700	
UNI 2.2 R5 S60	UNI-E 2.2 R5 S60	AS 47 A 1536 6P 0700 AUV 47 L 9856 6P 0700	AS: Shaft with one flat (1), G1/4" Inlet and return
UNI 2.2 R6 M24-05	UNI-E 2.2 R6 M24	AS 67 B 1575 6P 0700	AS: pressure range 10 - 15 bars

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ECKERLE Old ref.	ECKERLE New ref.	SUNTEC	Remarks
UNI 2.3 L1 L56-I	UNI-E 2.3 L1 L26-80	D 45 C 7389 3PF	Specific model
UNI 2.3 L5 L54-S-05	UNI-E 2.3 L5 L24-13	D 45 C 7374 3P	
UNI 2.3 L5 L56-I	UNI-E 2.3 L5 L26-80	D 45 C 7389 3PF	Specific model
-	UNI-E 2.3 L5 L64	D 45 C 7374 3P	D: G1/4" Inlet and return
UNI 2.3 R5 L54-05	UNI-E 2.3 R5 L24	D 45 B 7347 3P	
UNI 2.3 R5 R54-L	UNI-E 2.3 R5 R24-93	D 47 A 7383 3P	
UNI 2.4 L1 M10-V2	UNI-E 2.4 L1 M10-22	AP 47 C 7556 4P 0700	AP: Shaft with one flat (1)
UNI 2.4 L1 M14-C1	UNI-E 2.4 L1 M14-12	AP 47 C 7556 4P 0700	
UNI 2.4 L1 R44	UNI-E 2.4 L1 R14	AP2 45 D 9566 4P 0700	
UNI 2.4 L1 R14-C1-21	UNI-E 2.4 L1 R14-12	AP2 45 D 9566 4P 0700	
-	UNI-E 2.4 L5 L20	AP2 45 C 9569 4P 0700	Specific model
UNI 2.4 L5 L24	UNI-E 2.4 L5 L24	AP 47 C 7556 4P 0700	
UNI 2.4 L5 M20-21	UNI-E 2.4 L5 M20	AP2 45 C 9569 4P 0700	Specific model
-	UNI-E 2.4 L5 M24	AP 47 C 7556 4P 0700	

⁽¹⁾ ECKERLE model with 2 flats on the shaft; change coupling.

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ECKERLE Old ref.	ECKERLE New ref.	SUNTEC	Remarks
UNI 2.4 L5 S24	UNI-E 2.4 L5 S24	AT2 45 D 9544 4P 0700	
UNI 2.4 L6 L24-05	UNI-E 2.4 L6 L24	AP 67 C 7559 4P 0700	
UNI 2.4 L6 M24-C1	UNI-E 2.4 L6 M24-12	AP 67 C 7559 4P 0700	
-	UNI-E 2.4 L7 L22	AP2 95 C 9590 4P 0700	AP2: Flange mounting Ø 32 mm, Shaft with one flat (1)
UNI 2.4 L7 L24-05	UNI-E 2.4 L7 L24	AP2 95 C 9590 4P 0700	
UNI 2.4 L7 L56	UNI-E 2.4 L7 L26	AP2 95 C 9590 4P 0700	AP2: Flange mounting Ø 32 mm
-	UNI-E 2.4 L7 L26-05	AP2 95 C 9590 4P 0700	AP2: Flange mounting Ø 32 mm
UNI 2.4 L7 M25	UNI-E 2.4 L7 M25	AP2 95 C 9590 4P 0700	AP2: Flange mounting Ø 32 mm
UNI 2.4 R5 L24-05	UNI-E 2.4 R5 L24	AP 47 B 7561 4P 0700	
UNI 2.4 R5 R24	UNI-E 2.4 R5 R24	AP 47 A 7555 4P 0700	
UNI 2.4 R5 S70-ET	UNI-E 2.4 R5 S70	AP 47 A 1593 4P 0700	
UNI 2.4 R6 S24-ET	UNI-E 2.4 R6 S24	AP 67 A 1594 6P 0700	
-	UNI-E 2.42 R5 R70	AT2 45 A 9574 4P 0700	
-	UNI-E 2.6 L5 L14	AN 47 C 1342 6P	AN: Pump for two-pipe operation, to be converted to one-pipe operation

ECKERLE Old ref.	ECKERLE New ref.	SUNTEC	Remarks
UNI 2.6 L6 L44	UNI-E 2.6 L6 L14	AN 67 C 1336 6P	AN: Pump for two-pipe operation, to be converted to one-pipe operation
-	UNI-E2.91 L5 L14	AN 47 C 1342 6P	+ Low pressure kit 991500
UNI 2.91 L7 L44-05	UNI-E 2.91 L7 L14	AE 97 C 7390 2P	
UNI 2.96 L5 L44-05	UNI-E 2.96 L5 L14	AN 47 C 1342 6P	+ Low pressure kit 991500

⁽¹⁾ ECKERLE model with 2 flats on the shaft; change coupling.

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DANFOSS	SUN'	TEC	Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
BFP 10 L6 071N0272	AE 57C 7	7373 4P	
BFP 10 L6 071N0276	AE 57C 7	AE 57C 7373 4P	
BFP 10 L8 071N6111	AE 67C 7		
BFP 10 L11 071N6107	AE 77C 7380 2P		
BFP 10 L13 071N6103	AE 97C 7390 2P		+ Kit 991492
DED 10 D2 071N0177	AUV 47 R 9856 6P 0700 + Kit 991401		
BFP 10 R3 071N0177	AN 47B 1395 6P	AN 47A 1326 6P	
BFP 10 R3 071N0288	AUV 47 R 9856 6P 0700 + Kit 991401		DANFOSS: Pump in one-pipe
	AN 47B 1395 6P	AN 47A 1326 6P	configuration

HacocossSUNTEC www.boileconfee (915) 481-31-32 boileconfee				
	Left-hand nozzle outlet*	Right-hand nozzle outlet*		
BFP 10 R5 071N0166	AUV 47 R 9856 6P 0	0700 + Kit 991401		
BFP 10 K3 071N0100	AN 47B 1395 6P	AN 47A 1326 6P		
BFP 10 R6 071N0273	AN 57A 7	351 4P	SUNTEC pump has an hydraulic cut-off, 14 bars max.	
BFP 10 R6 071N0277	AN 57A 7351 4P		SUNTEC pump has an hydraulic cut-off, 14 bars max. DANFOSS pump in one-pipe configuration	
BFP 10 R8 071N6112	AN 67A 7345 4P		SUNTEC pump has an hydraulic cut-off	
BFP 10 R11 071N6108	AN 77A 7346 2P		SUNTEC pump has an hydraulic cut-off	
BFP 10 R13 071N6104	AN 97A 7391 2P		SUNTEC pump has an hydraulic cut-off	
BFP 11 L3 071N0101	AUV 47 L 9857 6P 0700			
	AUV 47 L 9857 6P 0700			
BFP 11 L3 071N0114	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	SUNTEC: Shaft with one flat DANFOSS: Shaft with two flats	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		

^{*}seen from shaft end.

<u> Hacocы SUNT</u>	асосы SUNTFC www boilersp ru (915) 481-31-32 boilersp@mail		I-32 boilersp@mail.ru
DANFOSS	SUNT	TEC	Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
BFP 11 L3 071N0141	AUV 47 L 985	57 6P 0700	DANFOSS: Pump in one-pipe configuration
BFP 11 L3 071N0142	AUV 47 L 985	57 6P 0700	DANFOSS: Pump in one-pipe configuration
BFP 11 L3 071N0144	AUV 47 L 985	57 6P 0700	
BFP 11 L3 071N0146	AUV 47 L 985	57 6P 0700	
BFP 11 L3 071N0152	AUV 47 L 985	57 6P 0700	
BFP 11 L3 071N0153	AUV 47 L 985	57 6P 0700	Change Suntec pump coil (new 24V coil ref. 3713823)
	AUV 47 L 985	57 6P 0700	
BFP 11 L3 071N0184	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
BFP 11 L3 071N0210	AUV 47 L 985	57 6P 0700	
BFP 11 L3 071N0213	AUV 47 L 985	57 6P 0700	

Hacocous UNTEC www.boilersontec (915) 481-31-32 boilerson www.boilersontec				
	Left-hand nozzle outlet*	Right-hand nozzle outlet*		
	AUV 47 L 98	57 6P 0700		
BFP 11 L5 071N0105	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700		
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		
	AUV 47 L 98	57 6P 0700		
BFP 11 L5 071N0178	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700		
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		
BFP 11 L6 071N1270	AS 57C 158	3 6P 0700	SUNTEC: 14 bars max.	
BFP 11 L6 071N1274	AS 57C 158	3 6P 0700	SUNTEC: 14 bars max. DANFOSS: Pump in one-pipe configuration	
BFP 11 L8 071N6109	AL 65C 958	9 6P 0700	SUNTEC: 15 bars max.	
BFP 11 R3 071N0143	AUV 47 R 9856 6P 0700			
BFP 11 R3 071N0145	AUV 47 R 98	56 6P 0700		
BFP 11 R3 071N0155	AUV 47 R 98	56 6P 0700		

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	C www.boilersp.ru (915) 481-31-3 SUNTEC	B2 boilersp@mail.ru Remarks
	Left-hand Right-hand nozzle outlet*	
BFP 11 R3 071N0181	AUV 47 R 9856 6P 0700	
BFP 11 R3 071N0183	AUV 47 R 9856 6P 0700	
BFP 11 R6 071N0271	AS 57A 7591 4P 0700	
BFP 11 R6 071N0275	AS 57A 7591 4P 0700	DANFOSS: Pump in one-pipe configuration
BFP 11 R6 071N1271	AS 57A 7591 4P 0700	SUNTEC: 14 bars max.
BFP 11 R6 071N1275	AS 57A 7591 4P 0700	SUNTEC: 14 bars max. DANFOSS: Pump in one-pipe configuration
BFP 11 R8 071N6110	AL 65B 9532 6P 0700	
BFP 11 R11 071N6106	AL 75B 9539 6P 0700	SUNTEC: 15 bars max. and left nozzle outlet DANFOSS: Right nozzle outlet
BFP 12 L6 071N6217	A2L 65 CK 9704 4P 0700	
BFP 12 L8 071N6210	A2L 65 CK 9704 4P 0700	

Hapanfos UNTE	C www.boiler ฐอู_ฟีเ	r <mark>ec</mark> (915) 481-31-3	2 boilersp@mail.ru
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
BFP 12 L11 071N6202	A2L 75 CK 97	01 4P 0700	
BFP 12 L13 071N6203	A2L 95 D 970	02 4P 0700	SUNTEC: Right nozzle outlet DANFOSS: Left nozzle outlet
BFP 12 R6 071N6218	A2L 65 A 970	08 4P 0700	
BFP 12 R8 071N6219	A2L 65 A 970	08 4P 0700	
BFP 12 R11 071N6214	A2L 95 B 97:	11 4P 0700	SUNTEC: Right nozzle outlet DANFOSS: Left nozzle outlet
BFP 12 R13 071N6220	A2L 95 B 97:	11 4P 0700	
DED 20 12 074N0400	AUV 47 L 9857 6P ()700 + Kit 991401	
BFP 20 L3 071N0108	AN 47 C 1342 6P	AN 47 D 1339 6P	
DED 20 12 074N0407	AUV 47 L 9857 6P (0700 + Kit 991401	
BFP 20 L3 071N0125	AN 47 C 1342 6P	AN 47 D 1339 6P	

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	C www.boilersp.rr SUN		32 boilersp@mail.ru Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
DED 20 12 074N0427	AUV 47 L 9857 6P 0)700 + Kit 991401	
BFP 20 L3 071N0127	AN 47C 1342 6P	AN 47D 1339 6P	
BFP 20 L3 071N0161	AUV 47 L 9857 6P 0	0700 + Kit 991401	
BFP 20 L3 07 IN0161	AN 47C 1342 6P	AN 47D 1339 6P	
BFP 20 L3 071N0168	AUV 47 L 9857 6P 0	0700 + Kit 991401	
BFF 20 L3 07 IN0108	AN 47C 1342 6P	AN 47D 1339 6P	
BFP 20 L3 071N0212	AUV 47 L 9857 6P 0	0700 + Kit 991401	SUNTEC: Shaft with one flat
BFP 20 L3 07 IN0212	AN 47C 1342 6P	AN 47D 1339 6P	DANFOSS: Shaft with two flats
	AUV 47 L 9857 6P 0	0700 + Kit 991401	
BFP 20 L3 071N0267	AN 47C 1342 6P	AN 47D 1339 6P	

Hacoccus UNTEC www.boilersp.filec (915) 481-31-32 boilersp.mail.ru				
	Left-hand nozzle outlet*	Right-hand nozzle outlet*		
	AUV 47 L 98	57 6P 0700		
BFP 20 L3 071N0295	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700		
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		
DED 20 LE 074 NO4 20	AUV 47 L 9857 6P (0700 + Kit 991401		
BFP 20 L5 071N0126	AN 47C 1342 6P	AN 47D 1339 6P		
DED 20 D2 074N0449	AUV 47 R 9856 6P (0700 + Kit 991401		
BFP 20 R3 071N0118	AN 47B 1395 6P	AN 47A 1326 6P		
DED 20 D2 074N0420	AUV 47 R 9856 6P (0700 + Kit 991401		
BFP 20 R3 071N0128	AN 47B 1395 6P	AN 47A 1326 6P		
BFP 20 R3 071N0162	AUV 47 R 9856 6P (0700 + Kit 991401		
BFP 20 K3 U/1NU162	AN 47B 1395 6P	AN 47A 1326 6P		

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	C www.boilersp.rt SUN	(010) 101 01	32 boilersp@mail.ru Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 R 9856 6P (0700 + Kit 991401	
BFP 20 R3 071N0169	AN 47B 1395 6P	AN 47A 1326 6P	
DED 20 D2 074 N0220	AUV 47 R 9856 6P ()700 + Kit 991401	
BFP 20 R3 071N0229	AN 47B 1395 6P	AN 47A 1326 6P	
DED 20 D2 074 N0200	AUV 47 R 9856 6P (0700 + Kit 991401	DANFOSS: Pump in one-pipe
BFP 20 R3 071N0298	AN 47B 1395 6P	AN 47A 1326 6P	configuration
DED 20 DE 074 NO4 20	AUV 47 R 9856 6P (0700 + Kit 991401	
BFP 20 R5 071N0129	AN 47B 1395 6P	AN 47A 1326 6P	
	AUV 47 R 9856 6P (0700 + Kit 991401	
BFP 20 R5 071N0180	AN 47B 1395 6P	AN 47A 1326 6P	

Hacoch SUNTE DANFOSS	C www.boilersp.r. SUN	(915) 481-31-3 TEC	2 boilersp@mail.ru Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L2 071N2123	AS 47C 1538 6P 0700	AL 35D 9529 6P 0700	
	AL 35C 9528 6P 0700	AS 47D 1539 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0102	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 9857 6P 0700		
BFP 21 L3 071N0103	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0104	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	C www.boilersp.ru (915) 481-31-32 SUNTEC		2 boilersp@mail.ru Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0111	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	AUV 47 L 9857 6P 0700	
BFP 21 L3 071N0113	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 9857 6P 0700		
BFP 21 L3 071N0119	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0122	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

Hacocus SUNTEC www.boilersp.ru (915) 481-31-32 DANFOSS SUNTEC			2 boilersp@mail.ru Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98.	57 6P 0700	
BFP 21 L3 071N0123	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	Change Suntec pump coil (new 110V coil ref. 3713824)
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0130	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0132	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0147	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

^{*}seen from shaft end.

Hacocы SUNTE	C www.bollerap.ru		
DANFOSS	SUN	TEC	Remarks
	Left-hand	Right-hand	
	nozzle outlet*	nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0148	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	AUV 47 L 9857 6P 0700	
BFP 21 L3 071N0150	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
AUV 47 L 9857 6P 0700		57 6P 0700	
BFP 21 L3 071N0151	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	DANFOSS: Pump in one-pipe
BFP 21 L3 071N0156	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	configuration
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

Hacocu SUNTEC www.boilersp.ru (915) 481-31-32 boilersp.@mail.ru			
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0164	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0170	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 9857 6P 0700		
BFP 21 L3 071N0175	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	Changa Suntas numn sail
BFP 21 L3 071N0176	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	Change Suntec pump coil (new 110V coil ref. 3713824)
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	EC www.boilersp.ru (915) 481-31-32 SUNTEC		2 boilersp@mail.ru Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0179	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	AUV 47 L 9857 6P 0700	
BFP 21 L3 071N0182	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 9857 6P 0700		
BFP 21 L3 071N0185	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	Change Suntec pump coil
BFP 21 L3 071N0189	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	(new 24V coil ref. 3713823)
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

Hacocu SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru DANFOSS Remarks			
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0193	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0197	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
AUV 47		57 6P 0700	
BFP 21 L3 071N0204	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0209	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

^{*}seen from shaft end.

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DANFOSS	S ['] UN'	SUNTEC	
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N0217	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 9857 6P 0700		
BFP 21 L3 071N0226	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
AUV 47 L 9857 6P 0700			
BFP 21 L3 071N0228	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	DANFOSS: Pump in one-pipe
BFP 21 L3 071N1214	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	configuration
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

Hacoch SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru DANFOSS SUNTEC			
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L3 071N1217	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	AUV 47 L 9857 6P 0700	
BFP 21 L3 071N1219	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
BFP 21 L3 LE 071N2103	ALE 35C 932	24 6P 0700	
BFP 21 L3 LE 071N2104	ALE 35C 932	24 6P 0700	
BFP 21 L3 LE 071N2108	ALE 35C 9324 6P 0700		
BFP 21 L3 LE 071N2110	ALE V35D 9337 6P 0700		
BFP 21 L3 LE 071N2112	ALE 35C 9324 6P 0700		
BFP 21 L3 LE 071N2113	ALE 35C 932	24 6P 0700	

^{*}seen from shaft end.

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DANFOSS	SUNTEC	SUNTEC	
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
BFP 21 L3 LE 071N2114	ALE 35C 9324 6	5P 0700	
BFP 21 L3 LE 071N2118	ALE V35D 9337	6P 0700	
BFP 21 L3 LE 071N2119	ALE 35C 9324 6	5P 0700	
BFP 21 L3 LE 071N4105	ALE V35D 9337	ALE V35D 9337 6P 0700	
BFP 21 L3-LE-S 071N0233	ALE 35C 9324 6P 0700		SUNTEC: Shaft with one flat DANFOSS: Shaft with two flats
BFP 21 L3-LE-S 071N0264	ALE 35C 9324 6P 0700		
BFP 21 L3-LE-S 071N2116	ALE 35C 9324 6P 0700		
BFP 21 L3-LE-S 071N2125	ALE 35C 9324 6P 0700		
BFP 21 L3-LE-S 071N2225	ALE 35C 9324 6P 0700		
BFP 21 L3-LE-S 071N2303	ALE 35C 9324 6	5P 0700	SUNTEC: Shaft with one flat DANFOSS: Shaft with two flats

Hacocu SUNTEC www.boilersp.rii (915) 481-31-32 boilersp@mail.ru				
	Left-hand nozzle outlet*	Right-hand nozzle outlet*		
	AUV 47 L 98	57 6P 0700		
BFP 21 L5 071N0107	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700		
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		
	AUV 47 L 98	57 6P 0700		
BFP 21 L5 071N0116	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700		
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		
	AUV 47 L 98	57 6P 0700		
BFP 21 L5 071N0158	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700		
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		
	AUV 47 L 98	57 6P 0700		
BFP 21 L5 071N0172	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700		
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700		

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	C www.boilersp.ru SUN	2 boilersp@mail.ru Remarks	
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 21 L5 071N0194	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L5 071N0202	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L5 071N0227	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 21 L5 071N0292	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

Hacoch SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru Remarks				
	Left-hand nozzle outlet*	Right-hand nozzle outlet*		
	AUV 47 R 98	56 6P 0700		
BFP 21 R3 071N0109	AC 47D 4527 CD 0700	AS 47A 1536 6P 0700		
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R3 071N0112	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700		
		AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R3 071N0136		AS 47A 1536 6P 0700		
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R3 071N0154	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700		
		AL 35A 9526 6P 0700		

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	C www.boilersp.rr sun	2 boilersp@mail.ru Remarks	
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 R 98	56 6P 0700	
BFP 21 R3 071N0157	AC 47D 4527 CD 0700	AS 47A 1536 6P 0700	DANFOSS: Pump in one-pipe configuration
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700	
	AUV 47 R 98	AUV 47 R 9856 6P 0700	
BFP 21 R3 071N0167	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	
		AL 35A 9526 6P 0700	
	AUV 47 R 98	56 6P 0700	
BFP 21 R3 071N0171	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700	
	AUV 47 R 9856 6P 0700		
BFP 21 R3 071N0198	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	
	A3 47 B 1337 BP 0700	AL 35A 9526 6P 0700	

Hacoch SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru DANFOSS Remarks				
	Left-hand nozzle outlet*	Right-hand nozzle outlet*		
	AUV 47 R 98	56 6P 0700		
BFP 21 R3 071N0208	AC 47D 4527 CD 0700	AS 47A 1536 6P 0700		
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R3 071N0214	46 470 4527 60 6700	AS 47A 1536 6P 0700		
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R3 071N0215	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700		
	A3 47B 1537 6P 0700	AL 35A 9526 6P 0700		
	AUV 47 R 9856 6P 0700		DANFOSS: Pump in one-pipe	
BFP 21 R3 071N0231	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	configuration	
	A3 47B 1337 6P 0700	AL 35A 9526 6P 0700		

^{*}seen from shaft end.

DANFOSS	SUN'	SUNTEC	
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 R 98	56 6P 0700	DANFOSS: Pump in one-pipe
BFP 21 R3 071N1215	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	configuration
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700	
	AUV 47 R 98	AUV 47 R 9856 6P 0700	
BFP 21 R5 071N0120	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	
		AL 35A 9526 6P 0700	
	AUV 47 R 98	56 6P 0700	
BFP 21 R5 071N0159	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700	
	AUV 47 R 9856 6P 0700		
BFP 21 R5 071N0163	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700	
	AS 4/B 153/ BP U/UU	AL 35A 9526 6P 0700	

Hacocы SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru DANFOSS SUNTEC Remarks				
	Left-hand nozzle outlet*	Right-hand nozzle outlet*		
	AUV 47 R 98	56 6P 0700		
BFP 21 R5 071N0165	AC 47D 4527 CD 0700	AS 47A 1536 6P 0700		
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R5 071N0173	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700		
		AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R5 071N0195	AC 47D 4F27 CD 0700	AS 47A 1536 6P 0700		
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700		
	AUV 47 R 98	56 6P 0700		
BFP 21 R5 071N0207	AS 47B 1537 6P 0700	AS 47A 1536 6P 0700		
	AS 47B 1537 6P 0700	AL 35A 9526 6P 0700		

^{*}seen from shaft end.

Hacocы SUNTE DANFOSS	C www.boilersp.ru sun	2 boilersp@mail.ru Remarks	
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98.	57 6P 0700	
BFP 31 L3 071N0115	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 9857 6P 0700		DANFOCC, Burney in and mine
BFP 31 L3 071N0133	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	DANFOSS: Pump in one-pipe configuration
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 31 L3 071N0149	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98.	57 6P 0700	
BFP 31 L3 071N0190	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	

Hacocы SUNTE DANFOSS	C www.boilersp.rt SUN		2 boilersp@mail.ru Remarks
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
	AUV 47 L 98	57 6P 0700	
BFP 31 L3 071N0191	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 31 L3 071N0192	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 31 L3 071N1201	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
	AUV 47 L 98	57 6P 0700	
BFP 31 L3 071N1203	AS 47C 1538 6P 0700	AS 47D 1539 6P 0700	
	AL 35C 9528 6P 0700	AL 35D 9529 6P 0700	
BFP 31 L3 LE 071N2109	ALE 35C 932	24 6P 0700	
BFP 41 L3 071N0135	AUV 47 L 98	57 6P 0700	

^{*}seen from shaft end.

Hacoch SUNTEC	www.boilersp.ru (915) 481-31 SUNTEC	32 boilersp@mail.ru Remarks
	Left-hand Right-hand nozzle outlet*	
BFP 41 L3 071N0160	AUV 47 L 9857 6P 0700	SUNTEC: Coil on the top DANFOSS: Coil at one side of the body
BFP 41 L3 071N0174	AUV 47 L 9857 6P 0700	
BFP 41 L3 071N0188	AUV 47 L 9857 6P 0700	
BFP 41 L3 071N0224	AUV 47 L 9857 6P 0700	
BFP 41 L3 071N0225	AUV 47 L 9857 6P 0700	
BFP 41 L3 071N1213	AUV 47 L 9857 6P 0700	
BFP 41 R3 071N0137/138	AUV 47 R 9856 6P 0700	SUNTEC: Coil on the top DANFOSS: Coil at one side of the body
BFP 41 R3 071N0196	AUV 47 R 9856 6P 0700	
BFP 41 R3 071N0235	AUV 47 R 9856 6P 0700	
BFP 51 L6 071N6204	AP2 65C 9511 4P 0700	

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	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
BFP 51 L8 071N6222	AP2 65C 9511 4	P 0700	
BFP 51 L11 071N6205	AP2 95C 9590 2	P 0700	
BFP 51 L13 071N6225	AP2 95C 9590 2	P 0700	
BFP 51 R6 071N6221	AP2 65B 9523 4	P 0700	
BFP 51 R8 071N6223	AP2 65B 9523 4	AP2 65B 9523 4P 0700	
BFP 52 L6 071N6206	AT2 55C 9549 4P 0700		
BFP 52 L8 071N6207	AT2 65C 9556 4P 0700		
BFP 52 L11 071N6209	AT2 75C 9583 4P 0700		
BFP 52 L13 071N6211	AT2 95C 9585 4P 0700		
BFP 52 R6 071N6227	AT2 55B 9515 4	P 0700	
BFP 52 R8 071N6208	AT2 65B 9587 4	P 0700	

^{*}seen from shaft end.

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DANFOSS	SUNTEC	SUNTEC	
	Left-hand nozzle outlet*	Right-hand nozzle outlet*	
BFP 52 R11 071N6210	AT2 75B 9591 4	1P 0700	
BFP 52 R13 071N6212	AT2 95B 9592 4	1P 0700	
BFP 52E L3 071N2201	ATE2 V45 C 9305	6 6P 0700	
BFP 52E L3 071N2209	ATE2 V45 C 9305	6 6P 0700	
BFP 52E L3 071N2211	ATE2 V45 C 9305	6 6P 0700	SUNTEC: Shaft with one flat DANFOSS: Shaft with two flats
BFP 52E L3 071N2213	ATE2 V45 C 9305	6 6P 0700	
BFP 52E L3 071N2264	ATE2 V45 C 9305	6 6P 0700	
BFP 52E L5 071N2202	ATE2 V45 C 9305	6 6P 0700	
BFP 52E L5 071N2205	ATE2 V45 C 9305	6 6P 0700	
BFP 52E L5 071N2212	ATE2 V45 C 9305	6P 0700	

DANFOSS	SUNTEC	Remarks
	Left-hand Right-hand nozzle outlet*	
BFP 52E L5 071N2217	ATE2 V45 C 9305 6P 0700	
BFP 52E L5 071N2220	ATE2 V45 C 9305 6P 0700	
BFP 52E L5 071N2265	ATE2 V45 C 9305 6P 0700	
BFP 52E R3 071N2203	AT2 55B 9515 4P 0700	
BFP 52E R5 071N2204	AT2 55B 9515 4P 0700	
BFP 53 L6 071N6213	AT3 55C 9550 4P 0700	
BFP 53 L8 071N6229	AT3 65C 9561 4P 0700	

^{*}seen from shaft end.

DE	LTA	SUNTEC	Remarks
V-, VM- Type	A-, AD- Type		
V1LR2	-	AN 47C 1342 6P	
V1LR1	-	AN 47C 1342 6P	Delta : Pump in one-pipe configuration
V1LL2	-	AN 47D 1339 6P	
V1LL1	-	AN 47D 1339 6P	Delta : Pump in one-pipe configuration
V1RL2	-	AN 47A 1326 6P	
V1RL1	-	AN 47A 1326 6P	Delta : Pump in one-pipe configuration
V1RR2	-	AN 47B 1395 6P	
V1RR1	-	AN 47B 1395 6P	Delta : Pump in one-pipe configuration

DE	LTA	SUNTEC	Remarks
V-, VM- Type	A-, AD- Type		
V2LR2	-	AN 57C 7349 4P	
V2LR1	-	AN 57C 7349 4P	Delta : Pump in one-pipe configuration
V2LL2	-	AN 57D 1303 6P	
V2LL1	-	AN 57D 1303 6P	Delta : Pump in one-pipe configuration
V2RL2	-	AN 57A 7351 4P	
V2RL1	-	AN 57A 7351 4P	Delta : Pump in one-pipe configuration
V2RR2	-	AN 57B 1330 6P	
V2RR1	-	AN 57B 1330 6P	Delta : Pump in one-pipe configuration

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DELTA		SUNTEC	Remarks
V-, VM- Type	A-, AD- Type		
VD1LR2	AD1-L2	AN 47C 1342 6P	
VD1LR1	AD1-L1	AN 47C 1342 6P	Delta : Pump in one-pipe configuration
VD1LL2	AD1-L2	AN 47D 1339 6P	
VD1LL1	AD1-L1	AN 47D 1339 6P	Delta : Pump in one-pipe configuration
VD1RL2	AD1-R2	AN 47A 1326 6P	
VD1RL1	AD1-R1	AN 47A 1326 6P	Delta : Pump in one-pipe configuration
VD1RR2	AD1-R2	AN 47B 1395 6P	
VD1RR1	AD1-R1	AN 47B 1395 6P	Delta : Pump in one-pipe configuration

С	ELTA	SUNTEC	Remarks
V-, VM- Type	A-, AD- Type		
VD2LR2	AD2-L2	AN 57C 7349 4P	
VD2LR1	AD2-L1	AN 57C 7349 4P	Delta : Pump in one-pipe configuration
VD2LL2	AD2-L2	AN 57D 1303 6P	
VD2RL2	AD2-R2	AN 57A 7351 4P	
VD2RL1	AD2-R1	AN 57A 7351 4P	Delta : Pump in one-pipe configuration
VD2RR2	AD2-R2	AN 57B 1330 6P	
VD2RR1	AD2-R1	AN 57B 1330 6P	Delta : Pump in one-pipe configuration

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DELTA		SUNTEC	Remarks
V-, VM- Type	A-, AD- Type		
VM1LR2	A1-L2	AUV 47 L 9857 6P 0700	
VM1LR1	A1-L1	AUV 47 L 9857 6P 0700	Delta : Pump in one-pipe configuration
VM1LL2	A1-L2	AUV 47 L 9857 6P 0700	
VM1LL1	A1-L1	AUV 47 L 9857 6P 0700	Delta : Pump in one-pipe configuration
VM1RL2	A1-R2	AUV 47 R 9856 6P 0700	
VM1RL1	A1-R1	AUV 47 R 9856 6P 0700	Delta : Pump in one-pipe configuration
VM1RR2	A1-R2	AUV 47 R 9856 6P 0700	
VM1RR1	A1-R1	AUV 47 R 9856 6P 0700	Delta : Pump in one-pipe configuration

DELTA		SUNTEC	Remarks
V-, VM- Type	A-, AD- Type		
VM2LR2	A2-L2	AUV 47 L 9857 6P 0700	
VM2LR1	A2-L1	AUV 47 L 9857 6P 0700	Delta : Pump in one-pipe configuration
VM2LL2	A2-L2	AUV 47 L 9857 6P 0700	
VM2LL1	A2-L1	AUV 47 L 9857 6P 0700	Delta : Pump in one-pipe configuration
VM2RL2	A2-R2	AUV 47 R 9856 6P 0700	
VM2RL1	A2-R1	AUV 47 R 9856 6P 0700	Delta : Pump in one-pipe configuration
VM2RR2	A2-R2	AUV 47 R 9856 6P 0700	
VM2RR1	A2-R1	AUV 47 R 9856 6P 0700	Delta : Pump in one-pipe configuration

6. cdลงอระเอาจริปให้เกียะ As, มนุ่งพย[ุ]ปอเรียงสายขอบที่ 915) 481-31-32 boilersp@mail.ru

AS	AUV	Remarks
AS 47 A 1536 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 A 1564 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 A 1589 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 A 1602 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 A 7432 xP 0500/0700	AUV 47 R 9856 6P 0700	+ Flange adaptor Ø32-Ø54 (Ref. 3719003)
AS 47 A 7436 xP 0500/0700	AUV 47 R 9856 6P 0700	+ Hub adaptor Ø32-Ø54 (Ref. 3759833)
AS V 47 A 1636 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 B 1537 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 BK 1551 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 B 7445 xP 0500/0700	AUV 47 R 9856 6P 0700	
AS 47 C 1538 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 CK 1554 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 C 1569 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 C 1578 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 CK 1582 xP 0500/0700	AUV 47 L 9857 6P 0700	

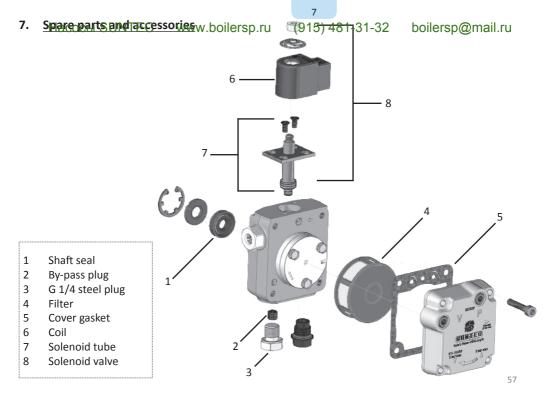
Hacoсы SUNTEC	www.boilersp.ru (915) 481-31-32 boilersp@mail.ru
AS 47 C 1603 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 C 1604 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 C 7434 xP 0500/0700	AUV 47 L 9857 6P 0700	+ Flange adaptor Ø32-Ø54 (Ref. 3719003)
AS 47 C 7438 xP 0500/0700	AUV 47 L 9857 6P 0700	+ Hub adaptor Ø32-Ø54 (Ref. 3759833)
AS 47 C 7444 xP 0500/0700	AUV 47 L 9857 6P 0700	+ Flange adaptor Ø32-Ø54 (Ref. 3719003)
AS 47 CK 7451 xM 0500/0700	AUV 47 L 9857 6P 0700	+ Flange adaptor Ø32-Ø54 (Ref. 3719003) AUV in two-pipe configuration
AS 47 C 7461 xP 0500/0700	AUV 47 L 9857 6P 0700	+ Flange adaptor Ø32-Ø54 (Ref. 3719003)
AS V 47 C 1627 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 D 1539 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 D 1550 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 D 1557 xP 0500/0700	AUV 47 L 9857 6P 0700	One flat shaft (1)
AS 47 DK 1562 xP 0500/0700	AUV 47 L 9857 6P 0700	
AS 47 D 7435 xP 0500/0700	AUV 47 L 9857 6P 0700	+ Flange adaptor Ø32-Ø54 (Ref. 3719003)
AS 47 D 7439 xP 0500/0700	AUV 47 L 9857 6P 0700	+ Hub adaptor Ø32-Ø54 (Ref. 3759833)
AS V 47 D 1696 xP 0500/0700	AUV 47 L 9857 6P 0700	

⁽¹⁾ AS Model with 2 flats on the shaft, change coupling.

Hacocы SUNTEC v	vww.boilersp.ru	(915)	481-31-32	boilersp@mail.ru
AL	AUV			Remarks
AL 35 A 9526 xP 0500/0700	AUV 47 R 9856 6P 070	00		
AL 35 A 9570 xP 0500/0700	AUV 47 R 9856 6P 070	00		
AL 35 A 9596 xP 0500/0700	AUV 47 R 9856 6P 070	00		
AL V 35 A 9626 xP 0500/0700	AUV 47 R 9856 6P 070	00		
AL 35 B 9580 xP 0500/0700	AUV 47 R 9856 6P 070	00		
AL 35 C 9528 xP 0500/0700	AUV 47 L 9857 6P 070	0		
AL 35 C 9540 xP 0500/0700	AUV 47 L 9857 6P 070	0	+ Inlet and retu	rn connections G1/8-G1/4
AL 35 C 9542 xP 0500/0700	AUV 47 L 9857 6P 070	0		
AL 35 C 9578 xP 0500/0700	AUV 47 L 9857 6P 070	0		
AL V 35 C 9628 xP 0500/0700	AUV 47 L 9857 6P 070	0		_
			•	
AL 35 D 9529 xP 0500/0700	AUV 47 L 9857 6P 070	0		

Hacocki SUNTE	C www.hoilersp.ru	(915) 481-31-32 hoilersp@mail.ru
AE 35 C 9850 xP	AUV 47 L 9857 6P 0700	+ Kit 991401
AE 47 A 1384 xP	AUV 47 R 9856 6P 0700	+ Kit 991401
AE 47 B 1366 xP	AUV 47 R 9856 6P 0700	+ Kit 991401
AE 47 B 7267 xP	AUV 47 R 9856 6P 0700	+ Kit 991401 + Hub adaptor Ø32-Ø54 (Ref. 3759833)
AE 47 C 1360 xP	AUV 47 L 9857 6P 0700	+ Kit 991401
AE 47 C 1386 xP	AUV 47 L 9857 6P 0700	+ Kit 991401
AE 47 C 1387 xP	AUV 47 L 9857 6P 0700	+ Kit 991401
AE 47 C 1394 xP	AUV 47 L 9857 6P 0700	+ Kit 991401 / One flat shaft (1)
AE 47 C 1397 xP	AUV 47 L 9857 6P 0700	+ Kit 991401
AE 47 C 7274 xM	AUV 47 L 9857 6P 0700	+ Kit 991401 + Flange adaptor Ø32-Ø54 (Ref. 3719003) AUV in two-pipe configuration
AE 47 C 7368 xP	AUV 47 L 9857 6P 0700	+ Kit 991401
AE 47 D 1378 xM	AUV 47 L 9857 6P 0700	AUV in two-pipe configuration
AE 47 D 1385 xP	AUV 47 L 9857 6P 0700	

⁽¹⁾ AS Model with 2 flats on the shaft, change coupling.



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Hacocы SUNTEC	www.boilersp.ru	(915) 481-31-32	boilersp@mail.ru

Hacocы SUN	IEC www.boilersp.ru (91	5) 481-31-32	boilersp@mail.ru
Description	Pump type	Reference	
Shaft seal (1)	AN, AE, AS, AL, AUV, A2L, ALE, AR, AP	, AT 991552	0
		'	
By-pass plug (2)	AN, AE, AS, AL, AUV, A2L, ALE, AR, AP	3779858	
Div. (2)	AN, AE, AS, AL, AUV, A2L, ALE, AR, AP G 1/4 steel plug	3779191	
Plug (3)	AN, AE, AS, AL, AUV, A2L, ALE, AR, AP G 1/8 steel plug	3779835	
	AS, AL, AUV, A2L, ALE, AR, AP, AT 220-240 V ; 50/60 Hz	3713871SAV	
Coil (6)	AS, AL, AUV, A2L, ALE, AR, AP, AT 110-120 V ; 50/60 Hz	3713824	
	AS, AL, AUV, A2L, ALE, AR, AP, AT 24 V ; 50/60 Hz	3713823	

1 10.0002.	SUNTEC www.bo	oilersp	\ /	p @mail.ru
Description	Pump type		Reference	
	AN/AE/AS/AP 47/5 Series 7000 - Rev. 3, 4, 5 Series 1000 - Rev. 1, 4, 5	5, 6	991530 (Height 20 mm)	
	AN/AE/AS/AP 47/5 Series 7000 - Rev. 2	7/67	3715732 (Height 28 mm) (only for pumps manufactured after 1988)	
	AN/AE 77/97 Series 7000 - Rev. 3, 4 Series 1000 - Rev. 1, 6		3715750 (Height 23 mm)	
Filter (4)	AN/AE 77/97 Series 7000 - Rev. 2		3715732 (Height 28 mm) (only for pumps manufactured after 1988)	
	AL/ALE/A2L/AR 35,	/55/65	001F30 (Height 30 mm)	
	AP2/AP3/AT2/AT3 45	/55/65	991530 (Height 20 mm)	
	AL/ALE/A2L/AR 75	/95	2715750 (Haight 22 mm)	
	AP2/AT2 75,	/95	3715750 (Height 23 mm)	
	AUV		991530 (Height 20 mm)	

— Hacocы SUNTEC www.boilersp.ru (915) 481-31-32 boilersp@mail.ru —				
Description	Pump type	Reference		
	AN/AE/AS/AP 47/57/67/77/97 Series 7000 - Rev. 4, 6 Series 1000 - Rev. 4, 6	991524		
	AN/AE/AS/AP 47/57/67/77/97 Series 7000 - Rev. 2, 3, 5 Series 1000 - Rev. 1, 5	991523		
Cover gasket (5)	AL/ALE/A2L/AR/AP2/AT2/AP3/AT3 35/45/55/65/75/95 Series 9000 - Rev. 4, 6	991524		
	AL/ALE/A2L/AR/AP2/AT2/AP3/AT3 35/45/55/65/75/95 Series 9000 - Rev. 1, 2, 5	991523		
	AUV	991524		

Coming life	AN, AE, AS, AL, AUV, A2L, ALE, AR, AP, AT - Low cover	991533	
Service kit	AN, AE, AS, AL, AUV, A2L, ALE, AR, AP, AT - High cover	991510	8 []°

Hacocы SUN	FEC www.boilersp.ru	(915) 481-31-32 k	oilersp@mail.ru
Description	Pump type	Reference	, 0
	AS/AP2/AP3	991430	
Solenoid tube (7)	AL rev. 2, 4, 5, 6	991502	
	AUV, AR, A2L	331302	TaT
	ALE	991600	

Hacocы SUNTE Description	EC www.boilersp.ru Pump type	(915) 481 31 32 Reference	ooilersp@mail.ru
Solenoid tube (7)	АР	991430	
Social table (7)	AT2/AT3 rev. 2, 4, 6	991503	

_		

Насосы SUNT	EC www.boilersp.ru	(915) 481-31-32 b	oilersp@mail.ru
Description	Pump type	Reference	. 0
	AS 220-240 V ; 50/60 Hz	991435	
	AS 110-120 V ; 50/60 Hz	991431	17
Solomoid volvo (9)	AS 24 V ; 50/60 Hz	991432	
Solenoid valve (8)	AL/AUV/A2L/AR 220-240 V ; 50/60 Hz	3713871SAV + 991502	©
	AL/AUV/A2L/AR 110-120 V ; 50/60 Hz	3713824 + 991502	To T
	AL/AUV/A2L/AR 24 V ; 50/60 Hz	3713823 + 991502	Ţ

Hacocы SUNT Description	EC www.boilersp.ru Pump type	(915) 481-31-32 bo Reference	oilersp@mail.ru
	AP 220-240 V ; 50/60 Hz	991455	0.
Solenoid valve (8)	AP2/AP3 220-240 V ; 50/60 Hz	991488	
	AT2/AT3 220-240 V ; 50/60 Hz	3713871SAV + 991503	

8. cdศคอยแปล์ UNTEC

AN/AE

Figures are for "C" shaft rotation

and nozzle outlet.

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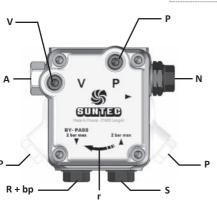
AN/AE/AS/AL/ALE pumps

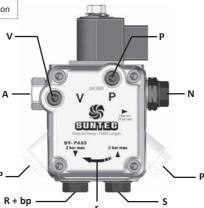
- S: Suction G 1/8 or G 1/4
- N: Nozzle outlet G 1/8
- R: Return G 1/8 or G 1/4
- V: Vacuum gauge port G 1/8
- P: Pressure gauge port G 1/8
- A: Pressure adjustment
- r · Rotation direction
- $\ensuremath{\mathbf{bp}}$: By-pass plug for 2-pipe operation

AS/AL/ALE

boilersp@mail.ru

Figures are for "C" shaft rotation and nozzle outlet.





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AUV 47 L 9857 6P 0700

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S: Suction G 1/4 R: Return G 1/4

N1: Nozzle outlet G 1/8

N2: Optional nozzle outlet G 1/8

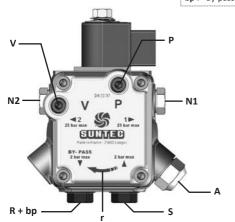
V: Vacuum gauge port G 1/8 P: Pressure gauge port G 1/8

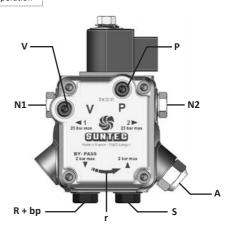
A: Pressure adjustment

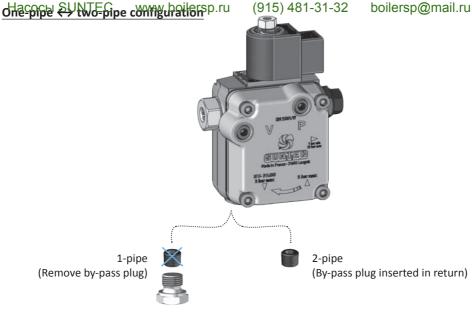
r: Rotation direction

bp: By-pass plug for 2-pipe operation

AUV 47 R 9856 6P 0700







9.

Most SUNTEC pumps are delivered prepared for two-pipe installations. They can be converted to one-pipe operation by removing the internal by-pass plug and fitting a plug and a washer to the return port thus creating an internal recirculation circuit.

Rated speed: 2850 rpm - Viscosity: 5 mm²/s (cSt) - Pressure: 9 bars

The annexed charts give the maximum length (in meters) of suction line as a function of 3 variables: lift between fuel unit and tank (H), nozzle capacity or pump type, pipe diameter (d), for an altitude of 200m above sea level and 0,45 bars vacuum. The length indicated (intersection of horizontal lines and columns) assumes the fitting of 4 right angle bends, 1 stop valve, 1 non return valve; if additional restrictions exist (particularly the filter of the suction line), the length must be reduced accordingly.

Only mentioned diameters can be used, bigger pipes are not suitable.

Altitude correction: if X is the altitude (different from 200m),

- Lift system: add the value (X-200)/1000 to the real lift height "H", to obtain the equivalent lift, then determine the maximum length with the annexed charts.
- Siphon feed system: reduce the real head height "H" by (X-200)/1000.

E.g.: AS 47 pump in two-pipe lift system, with lift height = 1,5m, altitude = 700m, pipe diameter = 8mm. Equivalent lift height: 1.5+(700-200)/1000 = 2m, maximum pipe length = 26m.

Pressure correction: only for one-pipe system.

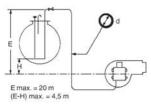
If P is the pressure (different from 9 bars), use the theoretical equivalent nozzle capacity = $(\sqrt{P}/3)$ x real nozzle capacity.

E.g.: one-pipe lift system, with nozzle = 0,60 GPH, pressure = 22 bars, pipe diameter = 4mm, suction height =3m.

Equivalent nozzle capacity = $(\sqrt{22} / 3)x0,60 = 0.94$ GPH. The maximum pipe length is comprised between 17m (corresponding to 0,80 GPH) and 14m (corresponding to 1,00 GPH), that means around 15m.

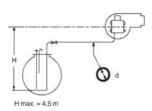
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One-pipe siphon feed system



Nozzle (US GPH)	0,50	0,60	0,80	1,00	1,00 1,50		1,50 2,		2,00		2,00 4,00			1	6,00		9,50				
H (m)	4	4	4	4	4	6	4	6	4	6	8	4	6	8	4	6	8	10			
0	90	75	56	45	30	150	22	113	11	56	150	7	37	119	4	23	74	150			
0,5	100	83	63	50	33	150	25	126	12	63	150	8	41	133	4	26	83	150			
1	110	92	69	55	37	150	27	139	13	69	150	8	46	146	5	28	92	150			
2	131	109	82	65	44	150	33	166	16	82	150	10	55	150	6	34	109	150			
3	152	126	95	76	50	150	38	192	18	96	150	12	63	150	7	39	127	150			
4	172	144	108	86	57	150	43	218	21	109	150	14	72	150	8	45	144	150			

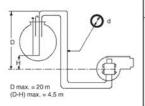
One-pipe lift system



Nozzle (US GPH)	0,50	0,60	0,80	1,00	1,5	ю	2,0	00		4,00			6,00			9,	50	
H (m) d (mm)	4	4	4	4	4	6	4	6	4	6	8	4	6	8	4	6	8	10
0	90	75	56	45	30	150	22	113	11	56	150	7	37	119	4	23	74	150
0,5	79	66	50	40	26	134	20	100	9	50	150	6	33	105	3	20	66	150
1	69	57	43	34	23	116	17	87	8	43	138	5	28	91	2	17	57	141
2	48	40	30	24	16	81	12	61	6	30	96	3	20	64		12	40	98
3	28	23	17	14	9	47	7	35	3	17	55		11	36		6	22	56
4	7	6	4			12		9		4	14			9			5	13

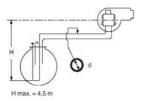
Hacocы SUNTEC

Two-pipe siphon feed system



Pump Q* (Vh)	ler	35/4	.ru 15/47		(9	710	5) 4 5/57 7	81	-3	65	2 /67 02		boi	75	SP (777 30	@r	na	95	U 5/97 50	_
H (m) d (mm)	4	6	8	10	6	8	10	12	6	8	10	12	8	10	12	14	8	10	12	14
0	2	15	50	124	11	38	96	150	7	27	71	150	20	54	116	150	16	46	100	150
0,5	2	16	56	138	12	42	107	150	8	31	79	150	23	61	130	150	19	52	112	150
1	2	18	61	150	13	47	118	150	9	34	88	150	26	68	144	150	21	57	124	150
2	3	22	73	150	16	56	141	150	11	41	105	150	31	81	150	150	26	69	148	150
3	4	26	85	150	19	66	150	150	13	48	122	150	36	94	150	150	31	81	150	150
4	4	30	97	150	22	75	150	150	16	55	139	150	42	108	150	150	35	92	150	150

Two-pipe lift system



Pump Q*(i/h)		35/4 60				55 77	/57			65/				75/ 13				95/ 15		
H (m) d (mm)	6	8	10	12	6	8	10	12	6	8	10	12	8	10	12	14	8	10	12	14
0	15	50	124	150	11	38	96	150	7	27	71	150	20	54	116	150	16	46	100	150
0,5	13	44	109	150	9	33	84	150	6	24	62	132	17	48	103	150	14	40	88	150
1	11	38	95	150	8	29	73	150	4	20	54	115	15	41	89	150	12	34	76	144
2	7	26	66	138	5	19	51	107	2	13	37	80	9	28	61	116	7	23	52	100
3	3	14	37	79		10	28	60		6	20	44	4	14	33	65		11	28	55
4			8	19			5	14				9			6	14			4	11

*Q = pump capacity @ 0 bar

11.1 Pump is not running

Check if	Probable explanation	Solution						
the motor is turning.								
YES	Motor coupling is defective or has came loose	Check coupling and repair or replace as appropriate.						
NO	Pump has seized	Remove pump cover and check pump. If rust and / or an abnormal amount of dirt are found, check tank for water and check condition of filters. Replace pump.						
	Motor does not work	Test motor and connections and repair or replace if necessary, having first examined the pump.						

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Check if	Probable explanation	Solution						
oil flows out of the high-pressure port when it is loosened.								
	Nozzle or in-line solenoid valve is blocked	Inspect nozzle and valve for blockage (dirt, grit, fuel,)						
YES	Solenoid valve or pressure regulator is defective	Switch on the coil and check for magnetic pull. If there is no pull, check the current. If the current is OK, change the coil. When the coil is in order, check the pressure regulating valve or replace the pump.						

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Check if ... Probable explanation Solution ...no oil flows from the high-pressure port when it is loosened. Check tank and refill. Oil level in tank is low Inlet pipe valve is closed Open the valve. NO On a new installation, the check Check that all valves are facing the right valve is the wrong way round way. ...and vacuum gauge shows a high vacuum. Check in-line filter and non-return valve. Blockage up-stream YES Pipe is undersized Check pipe dimensions.

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Check if	Probable explanation	Solution						
no oil flows from the high-pressure port when it is loosened.								
and vacuum gauge s	and vacuum gauge shows a low vacuum.							
	Pump filter is plugged	Remove pump cover and check filter condition.						
	Air leak	Check the tightness of pump cover (especially if the filter has recently been changed/ cleaned) and check the cover gasket.						
YES	Pipe is oversized	Very important for one-pipe systems. Check pipe diameter.						
	Pump rotates in a wrong way	If the installation is new, be sure that motor and pump rotation are the same. A pump turning in the wrong direction can not draw oil.						
	By-pass plug is missing in two-pipe installation	Check if the by-pass plug is installed.						

Check if	Probable explanation	Solution						
no oil flows from the high-pressure port when it is loosened.								
and vacuum gauge shows a low vacuum.								
YES	Suction and return lines have been swapped	Check they have been correctly fitted.						
	Pump is worn out	Check this by carrying out a pressure test.						

11.3 Hacocki SUNTEC too high / too low

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Check if	Probable explanation	Solution					
the pressure can be adjusted.							
and pressure gauge shows a low pressure.							
YES	Pump is not properly sized for the nozzle performance (remembering fuel viscosity) or any hydraulic attachments i.e. hydraulically opened air flap	Change pump or nozzle as appropriate.					
	Pump is worn out	Check this by carrying out a pressure test. Replace pump.					
and pressure gauge shows a high pressure.							
YES	Dirt in regulating valve	Dismantle pressure regulator or replace pump.					

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Check if	Probable explanation	Solution					
the pressure can be adjusted.							
and the pump pressure oscillates.							
	Air in the oil	Check vacuum does not exceed 0,45 bars. Check suction line for leaks.					
YES	Pressure regulating valve is defective or clogged	Dismantle pressure regulator or replace pump.					
	Motor coupling is slipping	Check coupling and check for speed variations.					
the pressure can not be adjusted.							
and the pressure is constantly too high or too low.							
YES	Pressure regulating valve is defective or clogged	Dismantle pressure regulator or replace pump.					
NO	Pressure gauge is defective or incorrectly installed	Check pressure gauge. Bleed when fitting.					

11.4 Hacocki SUNTEC makes noise v.boilersp.ru (915) 481-31-32 boilersp@mail.ru

Check if	Probable explanation	Solution						
an increasingly loud whine is coming from the pump.								
YES	Vacuum is too high (check with a vacuum gauge)	Check for closed valves, blocked filters, check valves that are stuck.						
the pump generates a cracking noise and the pressure gauge oscillates.								
YES	Air bubbles in the suction line	Check suction line for leaks. Bleed pump if installation is one-pipe.						

Check if	Probable explanation	Solution						
a small nozzle flow is used with a one-pipe installation.								
YES	Heat build-up from recirculation in pump plus heat radiated from motor etc.	Convert to two-pipe or fit filter upstream from pump with return from pump to filter. This circulation outside of the burner will help to cool the system.						

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