

Supplement Nr: 4**(1) EU-Type Examination Certificate****(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres****Directive 2014/34/EU****(3) EU – Type Examination Certificate Number: IEP 12 ATEX 090X****(4) Product: S Series Decanter****(5) Firm Name: POLAT Makina Sanayi ve Ticaret Anonim Şirketi****(6) Firm Address: Ata OSB Mah. Afrodisias Bulvarı No:13 Efeler, AYDIN – TÜRKİYE****(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.****(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-10.407-4 date 27.02.2025.****(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;****EN IEC 60079-0 : 2018 , EN ISO 80079-36 : 2016 , EN ISO 80079-37 : 2016****(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.****(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.****(12) The marking of the equipment or protective system shall include the following :****II 2G Ex db, eb, ib IIA T3 Gb
II 2G Ex h IIA T3 Gb****Responsible Person:****Nurettin Terzioglu
Head of Certification Body****Date of Issue: 03.03.2025**



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(13) Schedule

(14) Certificate Nr : IEP 12 ATEX 090X

(15) Description of Equipment;

S series decanter are designed for operate horizontally and these are the units to achieve the separation of the liquid and solid materials contained inside it, through rotating around itself in a certain rpm, in order to create a G (centrifugal) force. S series decanter centrifuge manufactured with a bowl which is driven by main motor and a scroll which is driven by second motor. The purpose of this described decanter is separating one liquid phase and one solid phase or two liquid phases and one solid phase which have density differences with 5 to 160 m³/h hydraulic capacity. Decanter is working with electrical control panel. The control panel in the non-hazardous area. If the control board in zone 1, to must be explosion proof. The determination of hazardous areas inside and outside of the decanter is defined in accordance to EN 60079-10-1 to see user manual.

Product code system

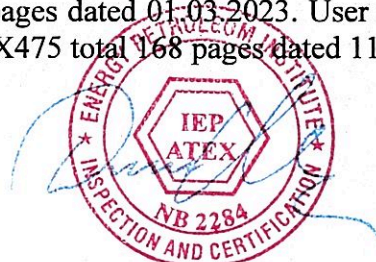
<u>S</u>	<u>X</u>	<u>XX</u>	<u>X</u>
SERIAL CODE	FRAME TYPE	TYPE NUMBER	SPECIAL FEATURES
	Empty : With Legs	20	0: Standard
	X: Without Legs	25	1: Hydraulic Coupling
		30	5: Closed Discharge
		35	
		43	
		47	
		53	
		57	
		65	
		67	
		77	
		84	
		92	

(16) Essential Health and Safety Requirements : Are included in standards , which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction. At the installation and the operation of the S series decanter user manual. The user manual consists of 3 parts (1-Spare parts catalogue; Page 65 12.04.2012; 56 pages June 2024 ; 2- Operation manual Page 68, 168 pages June 2024 and 3- PLC Inverter electrical projects Page.19) . User manual total 97 pages dated 01.03.2023. User manual of the SX920 total 78, pages dated 01.05.2024. User manual of SX475 total 168 pages dated 11.06.2024.

Responsible Person:

Nurettin Terzioğlu

Head of Certification Body



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi

5746/1 Sk. No:9 K:2 Bornova - İZMİR / TÜRKİYE Tel: +90 232 431 1745 – 46 Fax: +90 232 431 1730 E-mail: iep@iep.com.tr Fr: 45

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(17) Certificate Nr : IEP 12 ATEX 090X

(18) Technical data sheets

Types	Bowl Speed (rpm)	Bowl Diameter (mm)	Hydraulic Capacity (m ³ /h)	Voltage (V)	Frequency (Hz)	Power (kW)	Ambient Temp. (°C)	Max. Operating Temp. (°C)	Phase	Max. Density of feed product
S 200	5600	200	5	400/690	50/60	7.7-9.7	-20/+55	100	3	1,3 ~ 1,9
SX 200	5600	200	5	400/690	50/60	7.7-9.7	-20/+55	100	3	1,3 ~ 1,9
S 250	5050	250	7	400/690	50/60	9,7-19	-20/+55	100	3	1,3 ~ 1,9
S 300	4600	300	10	400/690	50/60	19-2,5	-20/+55	100	3	1,3 ~ 1,9
SX 300	4600	300	10	400/690	50/60	19-22,5	-20/+55	100	3	1,3 ~ 1,9
S 350	4250	354	20	400/690	50/60	27,5-37,5	-20/+55	100	3	1,3 ~ 1,9
SX 350	4250	354	20	400/690	50/60	27,5-37,5	-20/+55	100	3	1,3 ~ 1,9
SX 355	4250	354	20	400/690	50/60	27,5-37,5	-20/+55	100	3	1,3 ~ 1,9
S 430	3850	430	30	400/690	50/60	44,5-66	-20/+55	100	3	1,3 ~ 1,9
SX 430	3850	430	30	400/690	50/60	44,5-66	-20/+55	100	3	1,3 ~ 1,9
SX 435	3850	430	30	400/690	50/60	44,5-66	-20/+55	100	3	1,3 ~ 1,9
S 470	3700	470	35	400/690	50/60	52,5-90	-20/+55	100	3	1,3 ~ 1,9
SX 470	3700	470	35	400/690	50/60	52,5-90	-20/+55	100	3	1,3 ~ 1,9
SX 475	3300	470	35	400/690	50/60	52,5-90	-20/+55	100	3	1,3 ~ 1,9
S 530	3450	530	50	400/690	50/60	66-105	-20/+55	100	3	1,3 ~ 1,9
SX 530	3450	530	50	400/690	50/60	66-105	-20/+55	100	3	1,3 ~ 1,9
S 570	3350	570	65	400/690	50/60	66-112	-20/+55	100	3	1,3 ~ 1,9
SX 570	3350	570	65	400/690	50/60	66-112	-20/+55	100	3	1,3 ~ 1,9
SX 575	3350	570	65	400/690	50/60	66-112	-20/+55	100	3	1,3 ~ 1,9
S 650	3100	650	90	400/690	50/60	112-169	-20/+55	100	3	1,3 ~ 1,9
SX 650	3100	650	90	400/690	50/60	112-169	-20/+55	100	3	1,3 ~ 1,9
SX 655	3100	650	90	400/690	50/60	112-169	-20/+55	100	3	1,3 ~ 1,9
S 670	3100	692	110	400/690	50/60	112-169	-20/+55	100	3	1,3 ~ 1,9
SX 670	3100	692	110	400/690	50/60	112-169	-20/+55	100	3	1,3 ~ 1,9
S 770	2850	770	160	400/690	50/60	112-197	-20/+55	100	3	1,3 ~ 1,9
SX 770	2850	770	160	400/690	50/60	112-197	-20/+55	100	3	1,3 ~ 1,9
SX 840	2450	835	200	400/690	50/60	147-255	-20/+55	100	3	1,3 ~ 1,9
SX 920	2100	920	220	400/690	50/60	236-344	-20/+55	100	3	1,3 ~ 1,9

(19) Special conditions for safe use

19.1 The installation and the operation of the S series decanter have to confirm to the relevant national regulations.

19.2 (IEP 12 ATEX 090X) X means: The control panel shall be installed in a non-hazardous area. The procedure must be carried out according to the installation and operating instructions. If parts or unapproved equipment changes, the certificate becomes invalid.

Responsible Person:

Nurettin Terzioğlu

Head of Certification Body



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(20) Certificate Nr: **IEP 12 ATEX 090X**

(21) List of documentation:

- Ignition hazard assessment report acc. to EN ISO 80079-36:2016 dated 01.2025
- Risk assessment report acc. to EN12100 (5 pages)
- Table 2.1 Technical specifications and table 2.2 Scope of type List in the technical file
- The List of the Basic Sub-assemblies and Elements of S Decanter series with the specification of Ex-type Protection and the relevant certificate for electrical and non-electrical equipment and apparatus, which are potential dangerous of explosion – see table 5.3 dated 20.02.2023.
- The List of the other parts and components and technical specifications – see table 5.3.3
- **Drawings;**

Drawing Name ;	Drawing Nr;	Date ;
Danger Zone	MB.0607.B.00.01	15.05.2012
Layout	MB.0607.B.00.02	15.05.2012
Grounding	MB.0607.B.00.03	15.05.2012
Electrical Single Line	MB.0607.B.00.04	15.05.2012
Label and Warning	MB.0607.B.00.05	15.05.2012
S 570 Mounting Dismantling	MB.0607.B	31.03.2011
S 200 Mounting Dismantling	MA.1307.A	07.04.2010
S 250 Mounting Dismantling	MA.0307.A	24.08.2011
S 300 Mounting Dismantling	MA.1407.A	14.04.2010
S 350 Mounting Dismantling	MA.1107.C	14.01.2011
S 430 Mounting Dismantling	MA.0407.A	23.08.2011
S 470 Mounting Dismantling	MA.1607.A	14.02.2012
S 670 Mounting Dismantling	MB.0107.B	24.05.2011
Frame	YB.0607.B.01	25.04.2011
Bottom Chamber	YB.0607.B.02	01.04.2011
Upper Casing	YB.0607.B.03	26.02.2011
Motor Frame	YA.0607.A.04	26.02.2011
Front Case Assembly	YA.0607.A.05	19.12.2009
Conveyor Motor Plate	YB.0607.A.06	04.04.2012
Rear Casing	YB.0607.B.07.01.01	14.04.2011
Cent rate Discharge Plate	YA.0607.A.07.01.02	17.12.2008
Main Plate	YA.0607.A.07.01.03	17.12.2008
Straight Bowl Assembly	YB.0607.B.07.02	02.06.2011
Conical Bowl Assembly	YB.0607.B.07.03	02.04.2012
Front Casing	YA.0607.A.07.04	29.12.2011
Light Phase Outlet Nozzle	YB.0607.B.07.04	25.09.2008
Cent rate Outlet Face Plate	YB.0607.A.07.05	17.12.2008
Solid Discharge Abrasion Piece	YA.0607.A.07.06	17.12.2008
Bowl Pulley	YB.0607.B.07.07	17.12.2008

Responsible Person:

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(22) Certificate Nr : IEP 12 ATEX 090X

(23) Drawings

Drawing Name ;	Drawing Nr;	Date ;
Conveyor Bearing House	YA.0607.A.07.08	14.04.2011
Front Head	YB.0607.A.07.09	23.03.2011
Conveyor Rear Bearing Shell	YA.0607.B.07.10	25.03.2011
Conveyor Bearing Side Plate	YZ.1107.A.07.10	25.04.2011
Conveyor Front Bearing House	YA.0607.A.07.11	17.12.2008
Flange Coupling	YA.0607.A.07.12	25.04.2011
Front Bearing House Guided Shell	YA.0607.A.07.13	17.12.2008
Front Bearing House	YA.0607.A.07.14	25.03.2011
Rear Bearing House	YA.0607.A.07.15	25.03.2011
Rear Bearing Guided Cover	YA.0607.A.07.16	25.04.2011
Front Bearing Inner Flange	YA.0607.A.07.17	17.12.2008
Front Bearing House Perforated Shell	YA.0607.A.07.18	17.12.2008
Stress Flange	YA.0607.A.07.19	17.12.2008
Conveyor Assembly	YB.0607.B.07.20	18.12.2008
Rear Bearing House Perforated Shell	YA.0607.A.07.21	17.12.2008
Gear Box Connection Block	YB.0607.A.07.22	13.08.2009
Front Bearing House Rear Shell Flange	YA.0607.A.07.23	17.12.2008
Feed Tube Support Ring	YA.0607.A.07.24	17.12.2008
Rear Bearing House Inner Flange	YA.0607.A.07.25	17.12.2008
Pulley Climbing Nut	YB.0107.A.07.25	22.08.2008
Front Bearing House Press Flange	YA.0607.A.07.26	17.12.2008
Cent rate Barrier Plate	YA.0607.A.07.27	17.12.2008
Inner Ring	YA.0607.A.07.28	17.12.2008
Rear Bearing House Inner Flange	YA.0607.A.07.29	17.12.2008
Rear Bearing House Press Flange	YA.0607.A.07.30	17.12.2008
Conveyor Pulley	YB.0607.A.07.31	17.12.2008
Rear Bearing House Rear Shell Flange	YA.0607.A.07.32	17.12.2008
Rear Shell Other Ring	YA.0607.A.07.33	17.12.2008
Bearing Clamping Nut	YA.0607.A.07.34	17.12.2008
Drive Shaft	YB.0607.A.07.35	18.12.2008
Outer Feed Tube	YA.0607.A.07.36	17.12.2008
Hide Assembly	YA.0607.A.08	14.04.2011
Front Case Assembly	YA.0607.B.09	01.04.2011
Bottom Chamber	YB.0607.B.10	01.04.2011
Solid Discharge Channel Assembly	YA.0607.C.15	29.10.2010
Cent rate Hood	YB.0607.B.16	25.07.2008

Responsible Person:

Nurettin Terzioğlu

Head of Certification Body





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(24) Certificate Nr : IEP 12 ATEX 090X

(25) Drawings

Drawing Name ;	Drawing Nr;	Date ;
Reader Connection Profile Assembly	YB.0607.A.19	01.04.2011
Bottom Plate	YA.0607.A.20	19.08.2009
Hinge Pin	YA.0607.A.21	17.12.2008
Hinge Pin Bush	YA.0607.A.22	17.12.2008
Bottom Case	YA.0607.B.23	24.02.2010
Mount Side Plate	YB.0107.A.24	04.04.2012
Feed Tube Assembly	YB.0607.B.25	14.04.2011
Motor Case Assembly	YA.0607.A.27	13.08.2009
Feed Tube Bracket	YA.0607.A.28	25.01.2012
Bowl Speed Reader Frame	YA.0607.A.29	24.02.2010
Conveyor Speed Rpm Reader	YZ.0807.A.29	14.04.2011
Guide Pins	YA.0607.A.31	17.12.2008
Motor Mounting Plate- Minor Bottom	YA.0607.A.32	05.04.2012
Motor Mounting Plate- Minor Upper	YA.0607.A.33	17.12.2008
Hedge Dowel	YA.0607.A.34	17.12.2008
Belt Tension Drift Pin	YA.0607.A.35	17.12.2008
Minor Mounting Upper Washer	YA.0607.A.39	25.01.2012
Frame Cable Canal Cover	YA.0607.A.44	25.01.2012
Lubrication Connection Piece Assembly	YB.0107.A.49	09.07.2010
Distribution Collector Connection Plate	YB.0107.B.50	09.07.2010
Pump Bearing Grease	YZ.0117.A.01	19.01.2012
Pump Bearing Grease	YZ.0117.A.02	22.07.2008
Compression Ring Grease	YZ.0117.A.04	28.12.2007
Grease Pump Shaft	YZ.0117.A.05	15.07.2008
Top Grease Pump Cover	YZ.0117.A.06	30.01.2012
Long Arm Grease	YZ.0117.A.07	07.05.2010
Shaft Grease	YZ.0117.A.07	18.07.2008
Front housing installation	YA 0607A05	17.06.2019
Spiral motor sheet	YB 060 7B06	28.03.2018
Front cover	YA 0607A070401	28.03.2019
Solids output half a moon	150030040615	17.10.2017
Product inlet pipe	YA.0607.B.07.36	28.03.2016
Front housing installation	YA 0607B09	01.06.2018
Solid material outlet gutter installation	YA.0607.C.15	24.11.2014
Lower enclosure	YB.0607.A.23	17.06.2019
Product inlet pipe installation	YA.0607.A.25	01.11.2017

Responsible Person:

Nurettin Terzioglu

Head of Certification Body



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(26) Certificate Nr : **IEP 12 ATEX 090X**

(27) Drawings

Drawing Name ;	Drawing Nr;	Date ;
Motor enclosure installation	YA 0607A27	07.04.2018
Body reader chassis	YA.0607.A.29	15.04.2014
Grounding drawing	MB.0607.B.00.03	17.06.2019
Layout drawing	MP.0407.B-02	10.02.2023
Grounding drawing	MP.0407.B-03	10.02.2023
SX435 part list drawing	MP.0407.B	10.02.2023
SX840 part list drawing	MA2607A01.0001	10.02.2023
S770 part list drawing	MA2507B01.0001	10.02.2023
SX770 part list drawing	MA2507A01.0001	10.02.2023
SX670 part list drawing	MA0107A01.0001	10.02.2023
SX655 part list drawing	MP.2407.A	10.02.2023
SX650 part list drawing	MA.2407A01.0001	10.02.2023
SX575 part list drawing	MP0607C	10.02.2023
SX570 part list drawing	MS0607A	10.02.2023
SX530 part list drawing	MS0507A	10.02.2023
SX470 part list drawing	MS1607A	10.02.2023
SX430 part list drawing	MS0407A	10.02.2023
SX355 part list drawing	MP01107B	10.02.2023
SX350 part list drawing	MS1107B	10.02.2023
SX300 part list drawing	MS1407A	10.02.2023
SX200 part list drawing	MS1307A	10.02.2023
SX475 part list drawing	MP01607A01.0001	04.06.2024
SX920 part list drawing	MA02007A01.0001	01.06.2024

Certificate History;

Supplement Nr	Supplement Date	Summary Description of Variation
04	03.03.2025	Scope expansion (adding SX475 and SX920 type decanters)
03	02.03.2023	Standard upgrade (EN 60079-0 : 2013 to 2018 version) Scope expansion (Adding Sxxx0 and Sxxx5 Type Decanters)
02	10.12.2019	Change of regulation (2014/34/EU), change of standard, and scope expansion
01	10.10.2014	Replacement of equipment temperature class
00	05.06.2012	First issue of certificate

Responsible Person:

Nurettin Terzioğlu
Head of Certification Body



Date of Issue: 03.03.2025



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