Specification

Volute® Dewatering Press ES series

Model	ES-352-SA-CE-N

*-N=without Control Panel

Items		Specification	
Dimensions		L4169×W1550×H2326[mm]	
Total Power		6.75[kW]	
Power Supply		Main Power: 380-400VAC 50Hz (3P+N+PE) Motor Power: 380-400VAC 50Hz (Star-3P+PE) Control Circuit: 24VDC	
IP (Enclosure)		IP 55	
Cylinder Unit	Diameter × Length	φ350×2764[mm]	
	Quantity	2	
	Specification	Taper Screw / Inspection Port / Rib Rings	
	Material	Thickening zone:1.4301 Dewatering zone:1.4301	
V-Screw Motor	Model	KH97R57DRN100L4-232 Power: 380V-400VAC Star 3P/50Hz	(Supplier:SEW)
	Spec	Waterproof Spec(IP55)	
	Power	3 [kW] x 2	
Flocculation Tank	Dimensions	L850×W850×H1005[mm]	
	Capacity	Approx:553[L]	
	Material	1.4301	
Flocculation Tank Agitation Motor	Model	SA67DRN80M4-62.35 Power: 380V-400VAC Star 3P/50Hz	(Supplier:SEW)
	Spec	Waterproof Spec(IP55)	
	Power	0.75 [kW]	
Solenoid Valve	Model	SCG238A048.24/DC Power:24VDC	(Supplier:ASCO)
	QTY	2	
	Size	20DN (G3/4")	
	Material	Brass	
Flocc. Tank Level Switch	Model	PL2658	(Supplier: IFM)
	Material	Electrode：1.4404, PEI, FPM	
Filtrate Pan Level Switch	Model	PL2658	(Supplier: IFM)
	Material	Electrode：1.4404, PEI, FPM	
Others	Split Pan, All piping in SS, Top Cover		

Specification Sheet No.: 352ES14052018

Conveyance and Installation

Conveyance

●Ask for an authorized party to convey, transport, or install this equipment.

Installation

●Installation Conditions

Ambient Temperature	-10 ~ +40 Celsius (nonfreezing)
Ambient Humidity	90%RH Maximum　(no condensing)
Altitude	Max. 1000m Above sea level
Storage Temperature	-20 ~ +65 Celsius (Temperature applicable for short time, e.g. in transit)
Power Supply	3 phase 4 wire with Neutral 380 ~ 400VAC/50Hz TN-S
*Water Pressure	0.1~0.2MPa(1-2Bar)
Overvoltage category	Category Ⅲ, according to IEC60664-1
Pollution Degree	Degree 3 according to IEC60664-1
Applicable standards	EN 60204-1:2006+A1:2009, EN 61000-6-2:2005, EN 61000-6-4:2007, EN ISO 12100:2010, EN ISO 11202:2010 EN ISO 3746:2010, EN ISO 14120:2015 Machinery Directive (2006/42/EC) EMC Directive (2014/30/EU) LVD Directive (2014/35/EU)

***** Besides above conditions, sludge to be treated must be able to make flocculation by polymer

* Use of potable water is strongly recommended. In case of other cases, please consult with AMCON.

●This equipment is for indoor use only. Install in indoor.

●Volute Cylinder part and Flocculation Tank part will be delivered separately. Install them according to the drawing on Specification Sheets.

Volute Cylinder part



Flocculation Tank part



●When installing, make sure the weight of the equipment as well as the strength of the installation place against the weight.

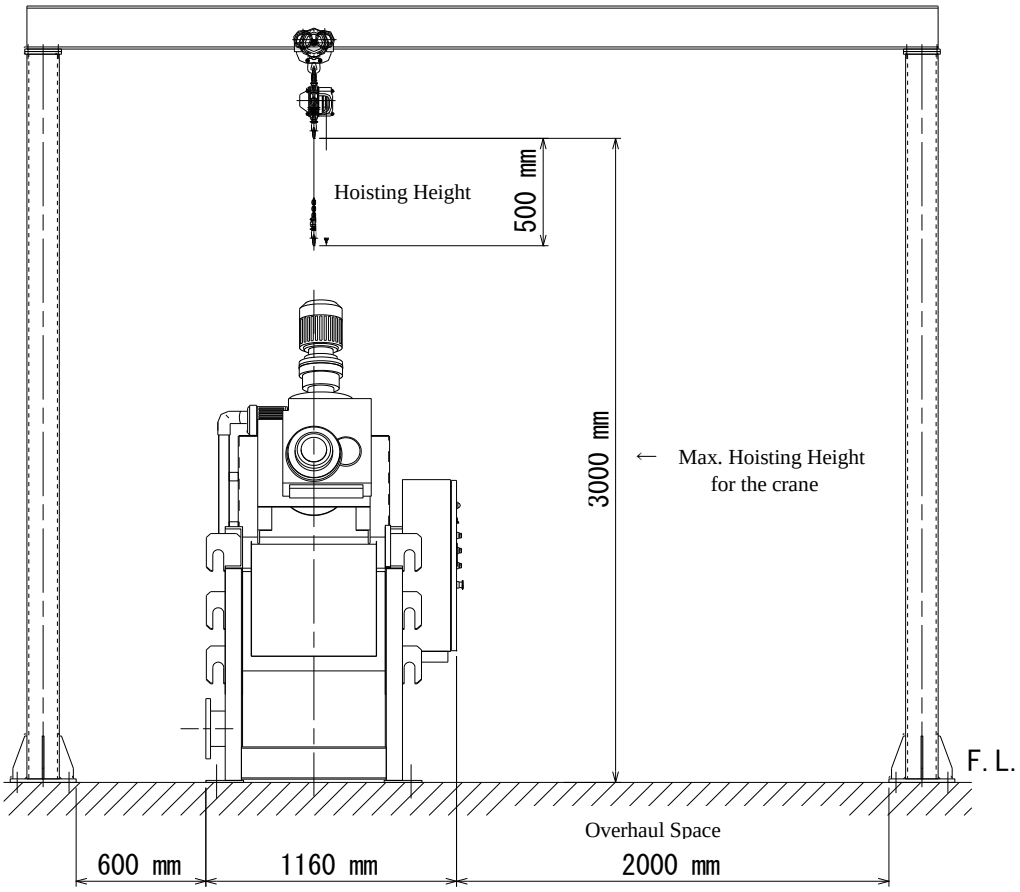
●If installed on a raised stand, prepare steps to conduct the maintenance check-up for End Plate and Flocculation Tank.

Hoist Cranes for Overhaul Works (Required)

●Prepare hoist cranes with at least 1.6 ton load capacity to hoist a Volute Cylinder for overhaul. Without hoist cranes, the overhaul cannot be carried out.

●The overhaul will be carried out on site. Secure enough space to carry replacement parts into the overhaul space specified below. In addition, if the overhaul space is on upper level or on a raised stand, prepare a hoisting equipment and secure space to lift up the replacement parts.

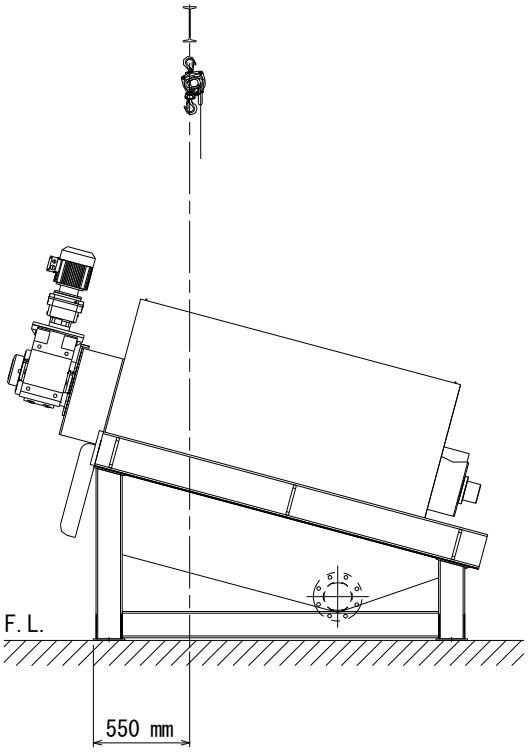
●Example of Installation　ES-351 model



※Overhaul Space

Model	Overhaul Space
ES-351	2000 [mm]
ES-352	2550 [mm]
ES-353	2550 [mm]
ES-354	2550 [mm]

●Hoisting point for all ES-350 models



Hoisting Point

●Overhaul Space

・Secure a cleared horizontal place without any pipes or bumps for overhaul.

・When overhauling ES-352, 353, 354 models, two Volute Cylinders may be placed at the same time on the floor of the overhaul space. Make sure the strength of the floor.

※The empty weight of each Volute Cylinder is approximately 1 ton.