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Якутск (4112)23-90-97
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Агрегат высокого давления плунжерного типа YTH-EP на 3,0–7,0 МПа

YTH-EP

Received the “2015 JSME Excellent Product Award”

Plunger Type 7.0 MPa High Pressure Unit

Turbulence™ Filter

Special turbulence cleans the filter automatically, rendering the filter clog free.

Plunger Pump/7.0 MPa–3.0 MPa

Piston action pushes fluid at high to medium pressure.

Compatible with TAZUNA™ Fluid Control System (Software)

TAZUNA reduces the electric power cost further by approximately 20%. The pressure and flow rate are automatically adjusted.



TOP—YTH ① ② - ③ E VD ④ ⑤ MODEL NUMBERING SYSTEM

①Motor Capacity	②Motor Type*1	③Pump Capacity (Plunger pump)	E: Filtering Method	VD: Relief Valve	④Relief Pressure Setting*2	⑤Filter Rating
2200: 2.2 kW 3700: 3.7 kW	[Standard Motor] A3: AC 200/200/220/230 V 50/60/60/60 Hz 3 phase electric induction motor (IE3) with CE marking [Local Motor] AE: supplied by NOP Germany AF: supplied by NOP Taiwan AJ: supplied by NOP Asia (China) AK: supplied by NOP India AU/AV: supplied by NOP North America (USA)	P008: 8 cc/rev P010: 10 cc/rev P014: 14 cc/rev P016: 16 cc/rev	Turbulence™ filter	External return type	70: 7.0 MPa 60: 6.0 MPa 35: 3.5 MPa 30: 3.0 MPa	B: 50 μm*3 C: 20 μm*4

*1 For further details about the local motors, please contact our overseas branch or subsidiaries.

*2 See P.45 to select a model that satisfies your desired relief valve set pressure.

*3 Please consult us if you use non-water soluble coolant as they can only be used in limited conditions.

*4 20 μm filter can not be applied to non-water soluble coolant.

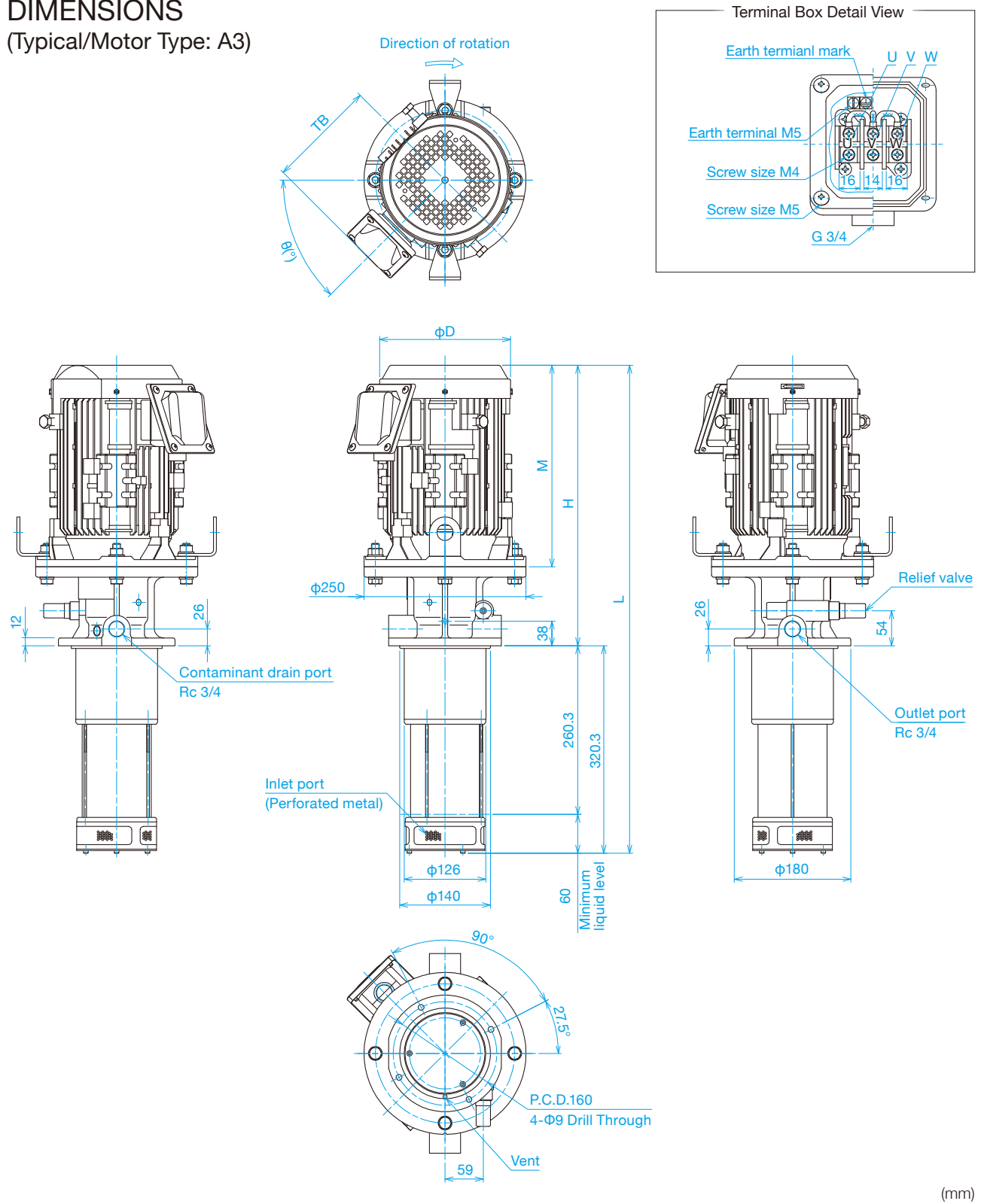
SPECIFICATIONS

Model	Motor Capacity (kW)	Flow Rate (L/min) 50 Hz/60 Hz	Maximum Pressure (MPa) 50 Hz/60 Hz	Approximate Weight (kg)
YTH2200A3-P008EVD70*	2.2	12.0/14.4	7.0/7.0	53
YTH2200A3-P010EVD**	2.2	15.0/18.0	7.0/6.0	53
YTH2200A3-P016EVD**	2.2	24.0/28.8	3.5/3.0	53
YTH3700A3-P014EVD70*	3.7	21.0/25.2	7.0/7.0	62
YTH3700A3-P016EVD**	3.7	24.0/28.8	7.0/6.0	62

*Suffix of the model number “**” each indicates ④Relief Pressure Setting and ⑤Filter Rating.

DIMENSIONS

(Typical/Motor Type: A3)



(mm)

Model	L	H	M	ϕD	$\theta(^{\circ})$	TB
YTH2200A3-P008EVD70*	753.3	433	311	202	45	168
YTH2200A3-P010EVD**						
YTH2200A3-P016EVD**						
YTH3700A3-P014EVD70*	768.3	448	326	243	45	187
YTH3700A3-P016EVD**						

*Drawings in PDF format can be downloaded from NOP filter pump website.

FEATURES OF YTH-EP

An All-in-one, High-to-medium Pressure Coolant Unit

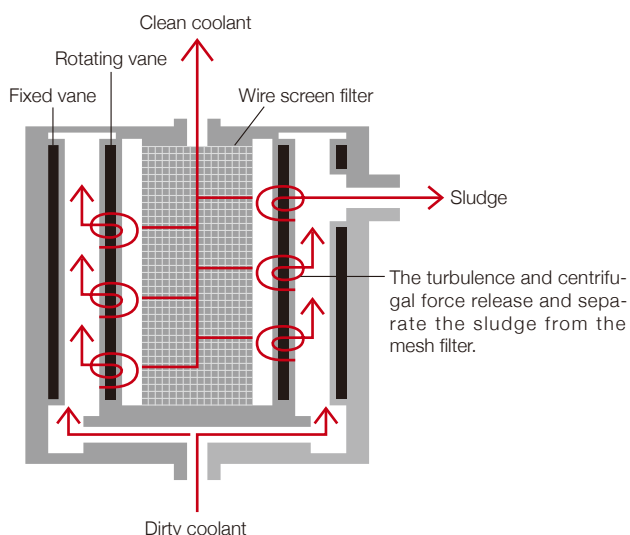
All components of a coolant system are consolidated into a single pump. No inline and suction filters are required. The saved space expands the available plant space, resulting in a higher production efficiency.

- Maximum operating pressure: 7.0 MPa.
- Maximum flow rate: 28.8 liters/min.
- No suction filter is required.
- No inline filter is required.
- No plumbing is required to interconnect various components.



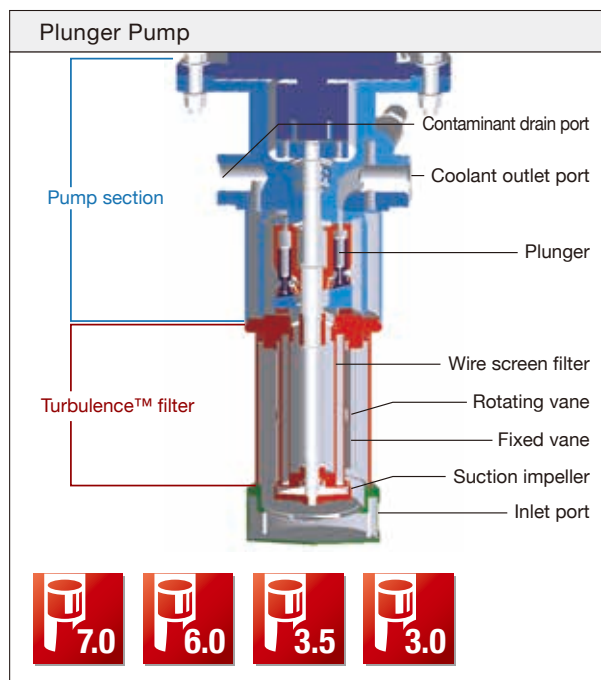
Turbulence™ Filter

Our special Turbulence™ design generates turbulence around the surface of filter with 2 wing-shaped vanes rotating around filter and can wash away sludge from filter surface continuously.



High Efficiency Plunger Pump

- Compatible fluid type
 - Water soluble coolant (Please consult us if you use non-water soluble coolant).
 - Incompatible with lubricant oils, fuel oils.
 - Incompatible with clear water, demineralized water, aqueous solutions and viscous fluids without rust-preventive property, corrosive fluids, solvents, and any cutting fluids that contain active sulfur.
- Relief valve is built into the pump.



Filter Rating (Nominal value)

Suction strainer	3 mm (Solids larger than this must be removed from the tank.)
Filter	20 µm, 50 µm

*Please consult us if you use non-water soluble coolant.

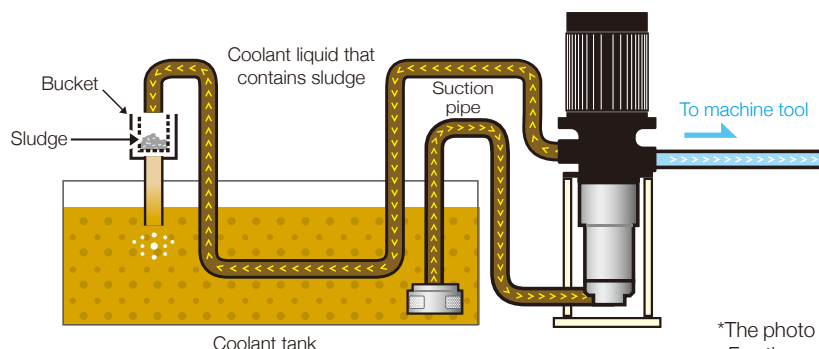
FEATURES OF YTH-EP LINE TYPE

*The model number of Line type ends with capital letter "L." The pump specification is the same as YTH-EP.

NOP Filter Pump External Type

Unlike normal type that can only be installed upon a coolant tank, this external type can be installed independently in a distant place with an extension pipe.

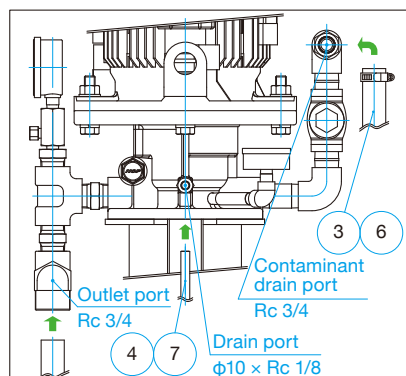
Alteration of tank cover is no longer necessary, allowing quick and easy retrofitting.



*The photo is for illustration purposes only.
For the actual appearance, please refer to the drawing on P.14.

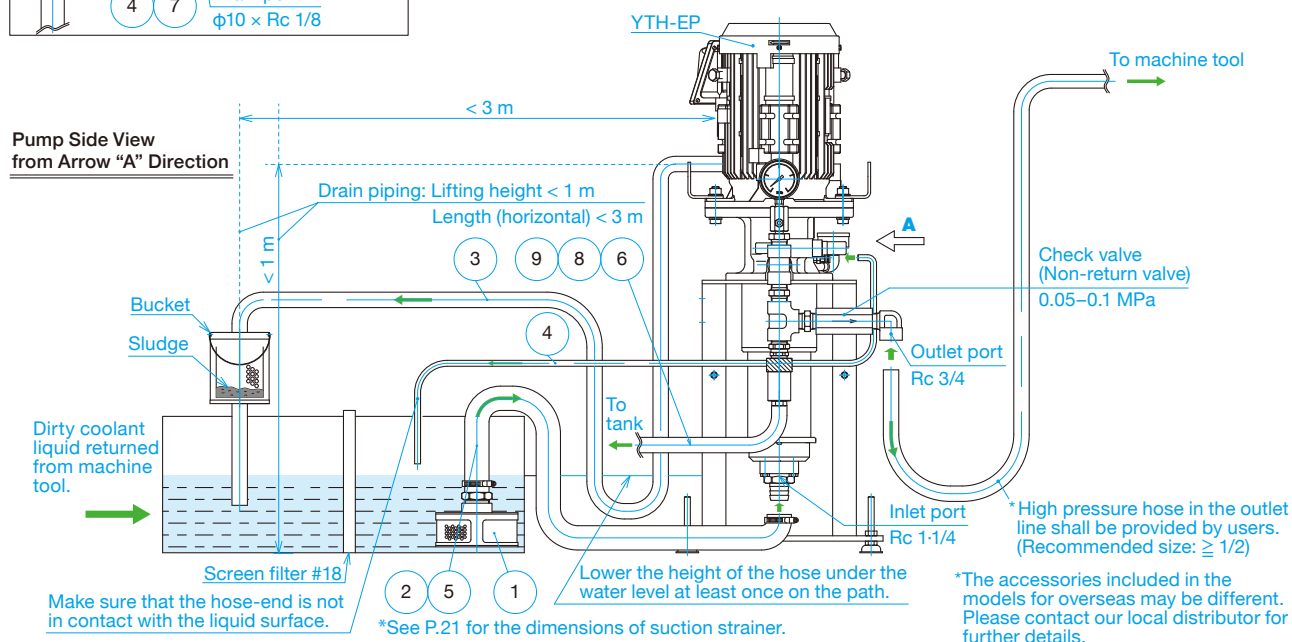


SAMPLE SYSTEM LAYOUT



Parts List

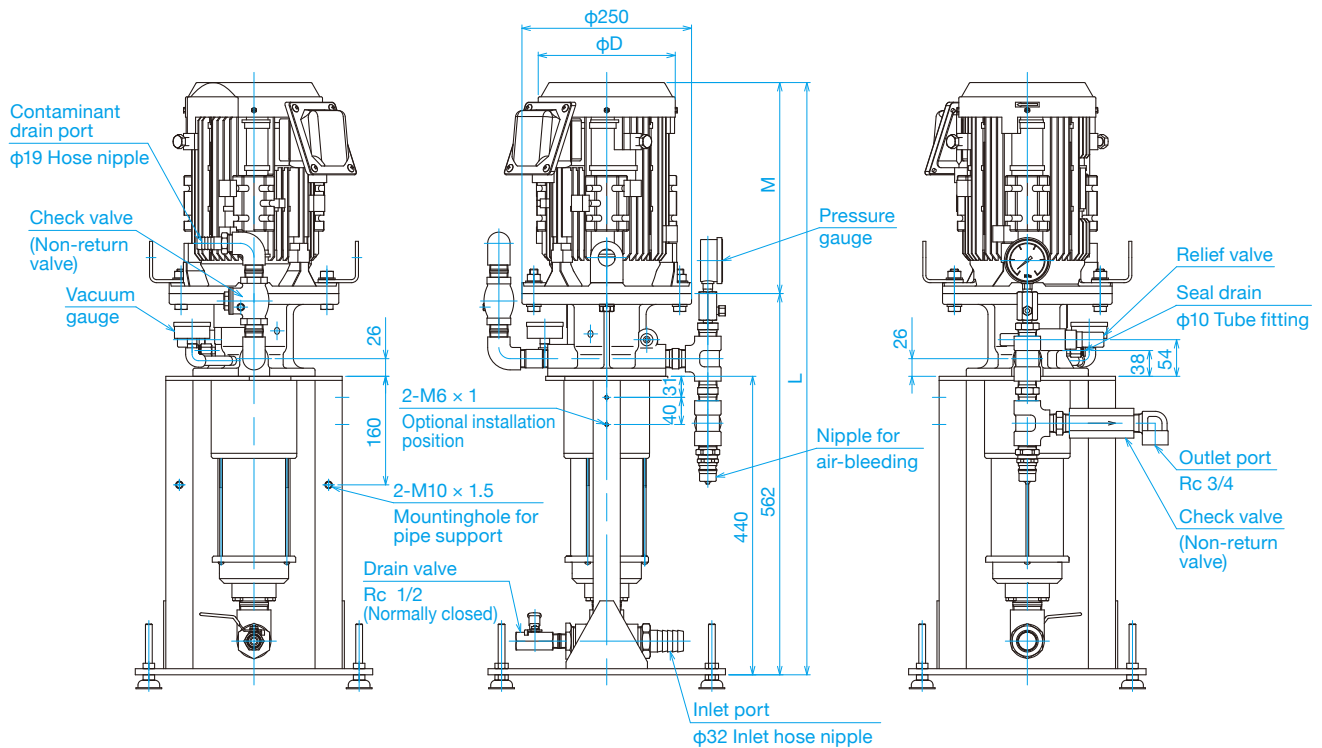
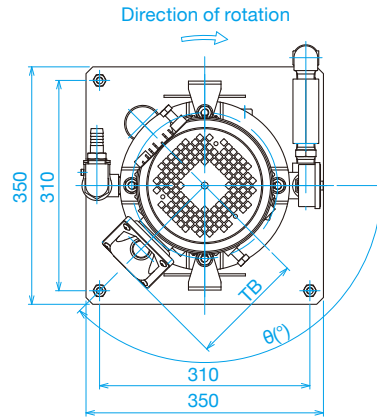
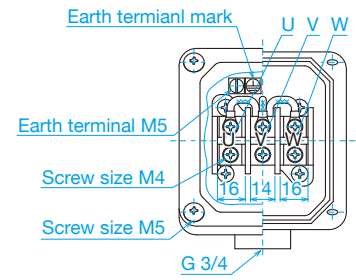
Item No.	Description	Qty.	Hose size (ID × OD)	Hose nipple	Note
①	Suction strainer (ASSY)	1	—	φ32 × R1-1/4	Insert a screen filter to ensure that pump doesn't directly suck foreign objects larger than the size of strainer perforations. Secure the strainer to the tank to prevent air suction.
②	Suction hose (3m)	1	φ32 × φ41	(φ32 × R1-1/4)	The hose should be as short as possible with minimum number of bends.
③	Contaminant drain hose (3m)	1	φ19 × φ26	(φ19 × R 3/4)	Lower the height of the hose under the water level at least once on the path as illustrated below to prevent air from flowing back into the system. Do not restrict the flow to 20 L/min or lower. The hose outlet should be secured as far away as possible from the strainer.
④	Drain tube (3m)	1	φ7.5 × φ10	(φ10 × R 1/8) (One touch joint)	Release the liquid from contaminant drain port in open atmosphere. (Make sure that the hose-end does not touch the liquid surface.) The liquid from the drain hose will drop with its own weight, so the hose should be as short as possible with minimum number of bends.
⑤	Hose clamp (φ32)	2	—	—	Tighten the hose clamp securely to prevent leaks.
⑥	Hose clamp (φ19)	2	—	—	Tighten the hose clamp securely to prevent leaks.
⑦	Tube insert (φ10)	1	—	—	Secure the tube insert tightly to prevent leaks.
⑧	Spare hose for air bleeding (3m)	1	φ19 × φ26	(φ19 × R 1/2)	Use this only when performing air-bleeding on the first run. (It will become unnecessary once the pump has primed.)
⑨	Spare coupler for air bleeding (ASSY)	1	—	φ19 × R 1/2	Use this only when performing air-bleeding on the first run. (It will become unnecessary once the pump has primed.)



DIMENSIONS

(Typical/Motor Type: A3)

Terminal Box Detail View



(mm)

Model	L	M	φD	θ(°)	TB
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YTH2200A3-P010EVD*CL					
YTH2200A3-P016EVD*CL					
YTH3700A3-P014EVD70CL	888	326	243		187
YTH3700A3-P016EVD*CL					

*Drawings in PDF format can be downloaded from NOP filter pump website.

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