

YTH-ES

Received the “2015 JSME Excellent Product Award”

Trochoid™ Type Medium Pressure Unit

Turbulence™ Filter

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

Trochoid™ pump/2.0 MPa, 1.5 MPa

A rotor turning in a trochoidal curve generates pressure to suck and discharge fluid. This is an extremely efficient self-priming pump.

Compatible with the TAZUNA™ fluid control system (software)

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



MODEL NUMBERING SYSTEM

TOP—YTH ① ② - ③ E VD ④ ⑤

①Motor Capacity	②Motor Type* ¹	③Pump Capacity (Trochoid™ pump)	E: Filtering Method	VD: Relief Valve	④Relief Pressure Setting* ²	⑤Filter Rating
750: 0.75 kW 1500: 1.5 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)	S208: 8 cc/rev S216: 16 cc/rev	Turbulence™ filter	External return type	20: 2.0 MPa 15: 1.5 MPa	B: 50 μm C: 20 μm* ³

*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 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)
YTH750A3-S208EVD15*	0.75	12.0/14.4	1.5/1.5	34
YTH1500A3-S216EVD**	1.5	24.0/28.8	2.0/2.0	39

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

FEATURES OF YTH-ES

An All-in-one, Medium Pressure Coolant Unit

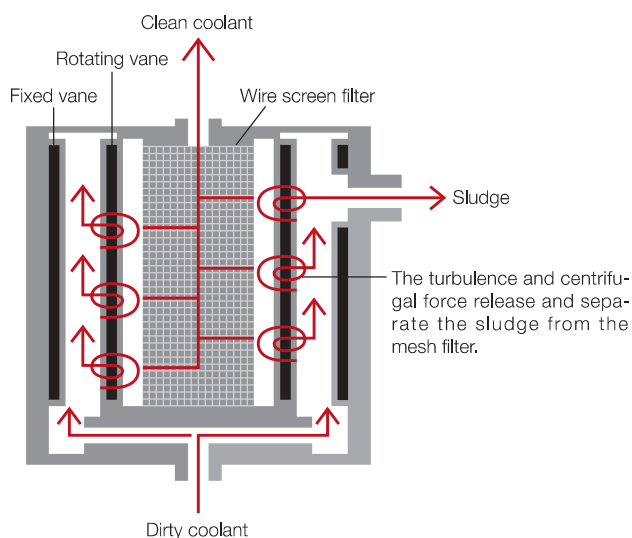
All components of a coolant system are consolidated into a single pump. No inline and suction filters are required. The saved space expands the available plant space, resulting in a higher production efficiency.

- Maximum operating pressure: 2.0 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.



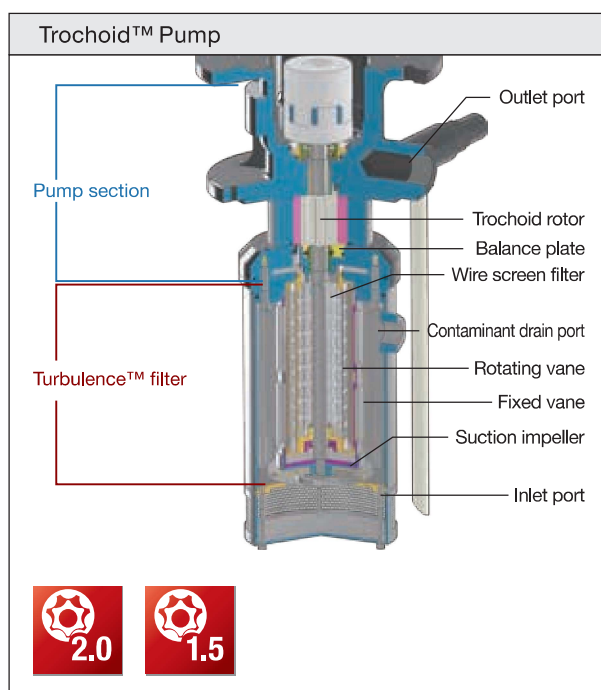
Turbulence™ Filter

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



High Efficiency Trochoid™ Pump

- Compatible fluid type
 - Water soluble coolant, 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, oil-based materials.
- 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

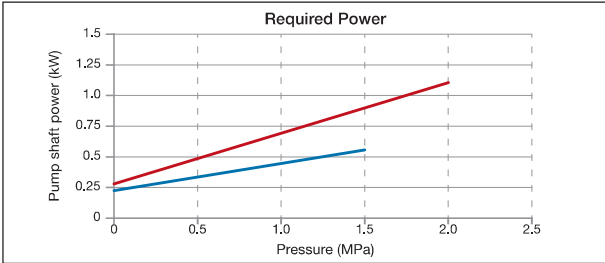
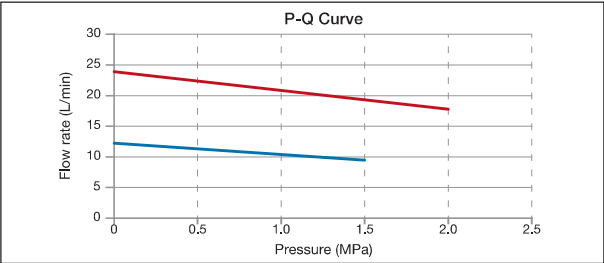
PERFORMANCE CURVES

Water Soluble Coolant [General Performance]

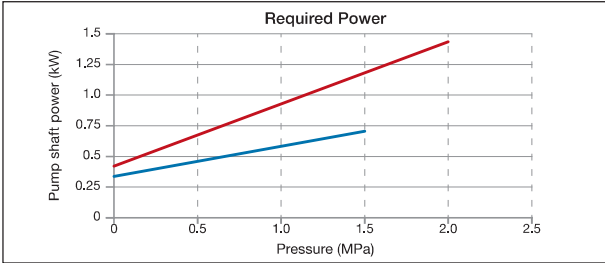
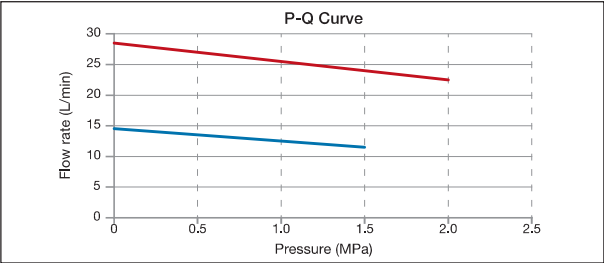
Test oil: JIS K2241 A3 solution containing 2% Water soluble cutting fluid.

YTH-ES208
YTH-ES216

50 Hz



60 Hz

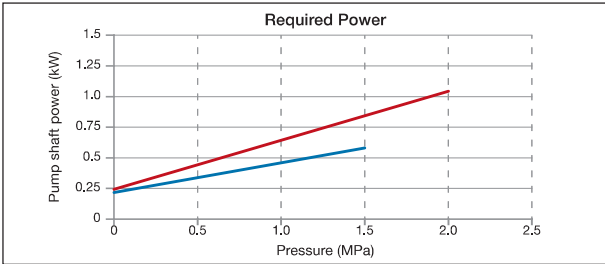
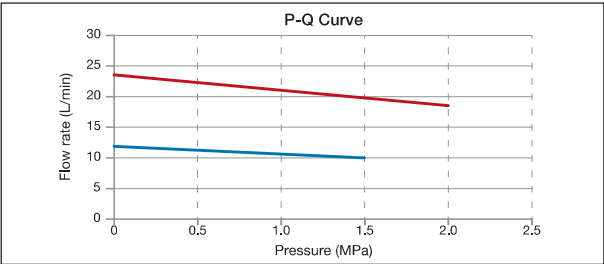


Spindle Oil [General Performance]

Test oil: ISO VG2 equivalent.

YTH-ES208
YTH-ES216

50 Hz



60 Hz

