

PSS

15 | 25 | 35
WW | AW

System for high precision supply and temperature control of polishing slurries and suspensions



Characteristics

- ▶ Electronic temperature control
- ▶ Chilling options:
 - ▶ Water-Water-Chiller (WW) for connection to central cooling system or external cooling unit
 - ▶ Self-chilling stand alone unit with integrated Air-Water-Chiller (AW)
- ▶ Electric heating up to 50 °C
- ▶ Coated stainless steel tank
- ▶ Chemical and abrasion resistant pump
- ▶ Housing out of chemically and mechanically resistant plastic
- ▶ Quick couplings on all electrical connections and media lines
- ▶ Acoustic alarm in case of errors (e.g. deadlock of the pump)
- ▶ System on wheels for positioning

Advantages

- ▶ Heating and cooling through outer tank walls prevent incrustations and agglomeration of polishing powders
- ▶ Enables finer and more consistent High precision temperature control
- ▶ polishing grades
- ▶ Minimization of media-contacting components a main design target
- ▶ Pump unit together with recycle opening freely rotatable & adjustable
- ▶ Pump unit together with tank lid completely removable
- ▶ Smooth surfaces without corners and edges enable easy cleaning of the entire system from the inside and outside
- ▶ Compact design
- ▶ Clear and comfortable operation
- ▶ Enables efficient use of the polishing slurry in circulation

Application Area

- ▶ With polishing machines
- ▶ With machines that require precision temperature-controlled fluid feed
- ▶ Application where you want to recycle fluids
- ▶ High precision machining

Options

- ▶ Sensor for pH-measurement
- ▶ Sensor for flow rate
- ▶ Level monitoring with alarm function
- ▶ Mechanical agitator
- ▶ Bypass for fluid mixing without mechanical agitator
- ▶ SPS controls incl. temperature recording
- ▶ Further options upon request



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dopa
DIAMOND TOOLS

CE

TECHNICAL DATA

PSS – 15

PSS – 25

PSS – 35

	PSS – 15	PSS – 25	PSS – 35
Filling volume [l]	15	25	35
Supply pumps	1	1	1
Max. flow rate per pump [l/min]	100	100	100
Temperature accuracy [°C]	≤ 1	≤ 1	≤ 1

Electric connection

400 V – 3 Ph – 50 Hz
220 V – 1 Ph – 50 Hz
208 V – 3 Ph – 60 Hz
208 V – 1 Ph – 60 Hz

Water-Water-Chiller (WW)

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Dimensions [L x W x H cm ³]	80 x 52 x 61	80 x 52 x 65	80 x 55 x 69
Inlet height – IH [cm]	39	43	47

Air-Water-Chiller (AW)

	PSS – 15	PSS – 25	PSS – 35
Dimensions [L x W x H cm ³]	104 x 56 x 65	104 x 56 x 65	104 x 59 x 69
Inlet height – IH [cm]	43	43	47

