



Langh Tech Ballast Water Systems

General technical specification for following systems:

LanghBW300 - LanghBW600 - LanghBW900

Langh Tech Ballast Water Systems			
	LanghBW300	LanghBW600	LanghBW900
Technical specification			
Treatment method	Filtration and UV-treatment	Filtration and UV-treatment	Filtration and UV-treatment
Rated capacity	100-300 m ³ /h	100-600 m ³ /h	100-900 m ³ /h
Pressure range	2,0-3,5 bar	2,0-3,5 bar	2,0-3,5 bar
Rated lowest UVT (min. 100 m ³ /h)	45 %	45 %	45 %
Lowest UVT at full flow rate	56 %	56 %	56 %
Min. hold time (IMO areas)	0 hours	0 hours	0 hours
Min. hold time (USCG areas)	24 hours	24 hours	24 hours
Power consumption	10-65 kW	10-125 kW	10-185 kW
Power consumption in normal operation	35 kW	65 kW	95 kW
Standard reactor power supply required	3-phase 400-440V, 50-60Hz, 150A	3-phase 400-440V, 50-60Hz, 150A x 2	3-phase 400-440V, 50-60Hz, 150A x 3
Standard power supply required / CC1	3-phase, 400-440V, 50-60Hz, 40A	3-phase, 400-440V, 50-60Hz, 40A	3-phase, 400-440V, 50-60Hz, 40A
Power supply type	IT or TN-S	IT or TN-S	IT or TN-S
GPS interface included	Yes	Yes	Yes
Approvals	IMO & USCG	IMO & USCG	IMO & USCG
Basic components in Langh Tech's scope of supply			
Filter	RF14-15	RF14-25	RF14-30
UV-reactor	1 x Reactor Unit	2 x Reactor Unit	3 x Reactor Unit
Cooling pump	1 x CP1	1 x CP1	1 x CP1
Flow regulation valve	1 x DN150 control valve	2 x DN150 control valve	3 x DN150 control valve
Flow transmitter	1 x DN150 flow transmitter	1 x DN200 flow transmitter	1 x DN250 flow transmitter
Main control unit	CC1	CC1	CC1
Reactor power unit	UVP1	UVP1, UVP2	UVP1, UVP2, UVP3
Reactor unit connection box	RU1-XD1	RU1-XD1, RU2-XD1	RU1-XD1, RU2-XD1, RU3-XD1
Remote I/O cabinet	R101	RI01	RI01
Local HMI panel	10" HMI panel	10" HMI panel	10" HMI panel
Basic integration to existing ballast system	With on/off signals and monitoring of 4 existing valves	With on/off signals and monitoring of 4 existing valves	With on/off signals and monitoring of 4 existing valves
Integration components, in Owner's scope of supply if not otherwise agreed			
Interconnecting piping	System specific	System specific	System specific
Manual valves	System specific	System specific	System specific
Actuated system side valves (if required)	System specific	System specific	System specific
Support structures	System specific	System specific	System specific
Cabling	System specific	System specific	System specific
Optional components, scope of supply to be determined			
Booster pump	System specific	System specific	System specific
Filter backflush pump	System specific	System specific	System specific
Remote HMI panel	10" panel, 15" panel or PC	10" panel, 15" panel or PC	10" panel, 15" panel or PC
Unit assembly	System specific	System specific	System specific
Integration to ship automation	Modbus TCP/RTU/other	Modbus TCP/RTU/other	Modbus TCP/RTU/other
Distribution board for power supply	System specific	System specific	System specific

If you wish to receive a quotation or more technical details regarding LanghBW Systems, please do not hesitate to contact us.

Please visit our homepage at www.langhtech.com or contact us directly.