



# With you at every step



Keep up with COVID-19 by taking the right measures for your Steam Engineering products

Bringing you knowledgeable insights and information that will keep your Steam Engineering products up and running during and post lockdown period. Kindly refer to the Start-up Protocols for the product that is applicable to you.

<b>CUSTOMER SERVICE BULLETIN</b>
<b>DOCUMENT No : SE/Startup Protocol/PRDSH Rev: 00</b>
<b>PRODUCT : PRDSH - PRESSURE REDUCING DE SUPER HEATER</b>
<b>DIVISION : HEATING - STEAM ENGINEERING</b>

	CHECK LIST	YES	NO
<b>P r e  C h e c k  u p</b>	• Remove the condensate from steam line available drain points and steam trap bypass .		
	• Clean the strainer of PRDSH .		
	• Remove the flanges before cooling watre pump and flush the entire pipe line . Fill the condensate pot with RO water/ equivalent water( If PT is installaed with pot).		
	• Clean the spray nozzle tip .		
	• Pneumatic air line should be flushed for 5 to 10 minutes at full pressure before opening the air to instruments.		
	• Check the both control valve operation in manual mode and ensure zero and span travel length.		
	• Adjust the AFR air pressure as mentioned on actuator .		
	• Check the incoming voltage before starting the electrical panel .		
	• Check the control valve operation in manual mode .		

<b>S t a r t  u p</b>	• Open all the water side inlet and outlet isolation valves .
	• Open all the instruments isolation valves .
	• Open the main steam valve and steam trap bypass valve to drain the condensate .
	• Close all the drain valves .
	• Close the PRS by-pass and isolation valves .
	• Initially operate in manual mode and stabalized the pressure and Temp .
	• Once the parameter stabalized put the system in auto mode.
	• Keep SV to "zero" in PID controller and open PRS isolation valves gradually upto its maximum position.
	• Gradully Increase SV in PID controller and check safety valve operation .
	• Set the required pressure in PID controller asper process requirement and observed working of PRS
• Set the required temperature in PID controller as per process requirement and observed working of DSH	

	Symptoms	Possible Causes	Do's	
<b>T r o u b l e s h o o t i n g</b>	Pr./Temp Control valve not operating	No air pressure.	<ul style="list-style-type: none"> <li>• close the bypass valves when system in operation.</li> <li>• Drain the water present if any inside the AFR daily once.</li> <li>• Always open the instrument isolation valve.</li> <li>• Check safety valve set value once in a week.</li> </ul>	
		No 4 -20mA output from PID controller.		
		Calibration disturbed.		
	Outlet temperature not maintaining	Check inlet pressure as per design.		<p style="text-align: center;"><b>Don't s</b></p> <ul style="list-style-type: none"> <li>• Never close the compressed air line valve during operation.</li> <li>• Never by-pass any safety valve .</li> <li>• Do not throttle the pump suction valve , always delivery valve should be throttled to adjust the pump pressure.</li> </ul>
		Clean DSH nozzle		
		Check water quantity		
	Pump head not maintaining	Maintain NPSH		
		Clean Pump strainer.		
	Control valve passing in close position	Calibration disturbed.		
		Seat & Plug worn out		
Foreign partical accumulated				



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Thermax Limited Steam Engineering Services recommends customer to get in touch with the local service engineer as per details given below :

## 1<sup>st</sup> Level

Region	Name of Service Engineer	Email id	Contact No
North (JK, PH, HAR)	Puneet Panchal	Puneet.Panchal@Thermaxglobal.com	9717200940
North (UP, NCR, RAJ)	Pradeep Kumar	Pradeep.Kumar@Thermaxglobal.com	9717032325
East	Pranay Mridha	Pranay.Mridha@Thermaxglobal.com	9830240010
West (MH, GOA)	Saddam Gadiwan	Saddam.Gadiwan@Thermaxglobal.com	7709973966
West (GJ, MP)	Vipul Gohil	Vipul.Gohil@Thermaxglobal.com	9662064627
South (AP, KAR, TS)	Sandeep Jampala	Sandeep.J@Thermaxglobal.com	8008145681
South (TN, KL)	Noor Mohammed	Noor.Mohammed@Thermaxglobal.com	8098734264
Head Office (HO)	Tushar Nalawade	Tushar.Nalawade@Thermaxglobal.com	8422044464

## 2<sup>nd</sup> Level

Contact Person	Designation	Email Id	Contact No.
Sathiyababu V.	Head - Technical Service Group	Sathiyababu.v@Thermaxglobal.com	9486620370