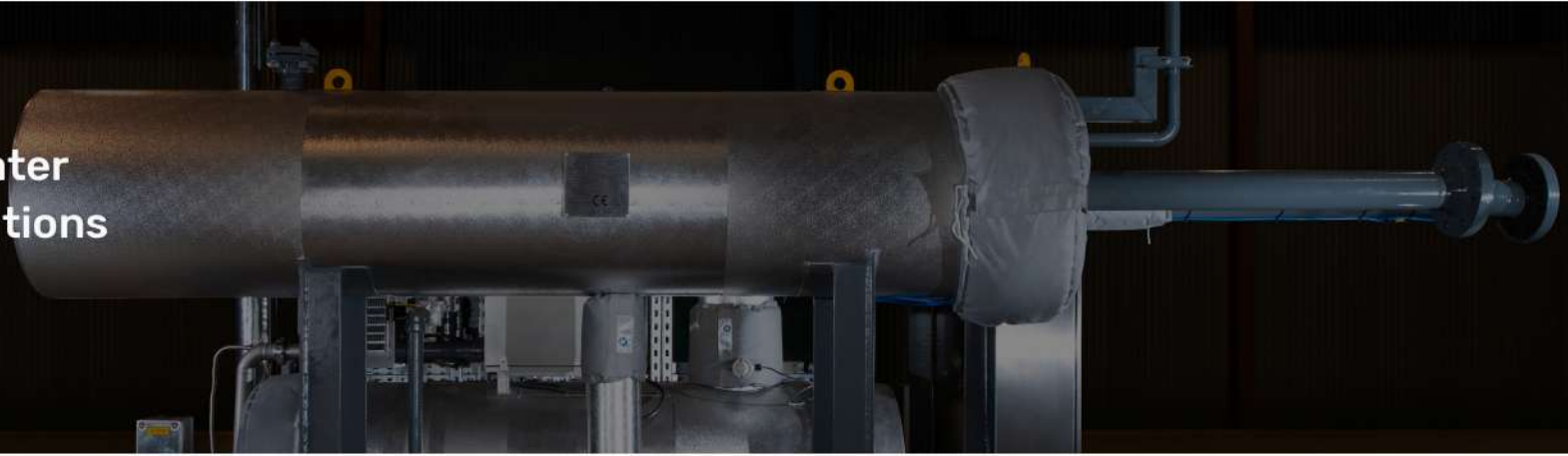


# Thermosyphon Heater Technical Specifications



General Performance Data		ITTH-0070	ITTH-0240	ITTH-1500
Gross Heat Input	kW	180	240	3500
Turndown		10:1	10:1	10:1
Immersion Tube Performance (net)	%	94 - 96	94 - 96	94 - 96
Burner Type	-	Forced Draft	Forced Draft	Forced Draft
NOx Value	mg/Nm <sup>3</sup>	<120	<120	<120
CO Value	ppm	<10	<10	<10
Noise Level @ 1m	dB(A)	<80	<85	<85
Heat Exchanger				
Natural Gas Coil Sizes	-	4", 6", 8"	4", 6", 8", 10", 12"	6", 8", 10", 12"
Design Code	-	PD5500:2015 & PED	PD5500:2015 & PED	PD5500:2015 & PED
Coil NDT	-	100% RT	100% RT	100% RT
Construction Material	-	ASTM A516-70/106B	ASTM A516-70/106B	ASTM A516-70/106B
Shell Operating Pressure Range	barg	-1 / 0.2	-1 / 0.2	-1 / 0.2
Shell Operating Temperature Range	°C	-5 / 105	-5 / 105	-5 / 105

Shell Design Pressure	barg	-1 / 0.5	-1 / 0.5	-1 / 0.5
Shell Design Temperature	°C	-20 / 110	-20 / 110	-20 / 110
Coil Design Pressure	barg	Client Specified	Client Specified	Client Specified
Coil Design Temperature	°C	-20 / 110	-20 / 110	-20 / 110
Safety Device	-	Bursting Disc	Bursting Disc	Bursting Disc
<b>Steam Plant</b>				
Heating Stages / Number of Burners	-	1 / 1	Modulating / 1	Modulating / 1
Heating medium	-	Ethylene Glycol & Water	Ethylene Glycol & Water	Ethylene Glycol & Water
Shell Construction Material	-	304 SS	Carbon Steel	Carbon Steel
Immersion Tube Construction Material	-	316 SS	316 SS	316 SS
Operating Pressure Min / Max	barg	-1 / 0.2	-1 / 0.2	-1 / 0.2
Operating Temperature Min / Max	°C	-5 / 105	-5 / 105	-5 / 105
Design Pressure	barg	-1 / 0.5	-1 / 0.5	-1 / 0.5
Design Temperature	°C	-15 / 110	-15 / 110	-15 / 110
<b>Electrical</b>				
Package Power Consumption	kW	2.3	3.5	15
Voltage	V	230	400	400
Phase	-	1	3	3
Frequency	Hz	50	50	50
<b>Dimensions and Weights</b>				
Height (1)	mm	3100	3100	5250
Length (1)	mm	3000	3000	5500
Width (1)	mm	2350	2350	2950
<b>Heater Package Conformance</b>				
CE Marketing	Pressure Equipment Directive (PED)	Machinery Directive	Electromagnetic Compatibility (EMC) Directive	Low Voltage Directive