

Dimensionare

Obiect

Schimbator de caldura cu placi	U.M.	Heating		Tap water			
Producator		Danfoss		Danfoss			
Tip							
Categorie PED		2014/68/EU Article 4.3		2014/68/EU Article 4.3			
Capacitate termica	kW	345.0		260.0			
		Primary	Secondary	Primary	Secondary		
Parametrii generali de design ai substatiei							
Temp. max (°C) / Pres. max. (bar)		120.0 / 14.5	90.0 / 5.68	120.0 / 14.5	90.0 / 6.0		
Debit	m3/h	15.16	15.09	11.42	4.5		
Temperaturi	°C / °C	80.0 / 60.0	70.0 / 50.0	80.0 / 60.0	55.0 / 5.0		
Caderi de presiune	kPa	18	15	18	15		
Presiune nominala	bar	16	6	16	6		
Material placi		EN 1.4404		EN 1.4404			
Fluid de lucru		Water	Water	Water	Water		
		prim_pipe1	sec_pipe1	prim_pipe2	sec_pipe2		
	Termoficare	intern_pipe1	heating_pipe1	intern_pipe2	heating_pipe2		
Diametru conducte (DN)	65	65	65	50	40 / 20		
Vane de reglare							
Producator		Danfoss					
Tip		VM 2					
Debit	m3/h	15.16					
Cadere de presiune	kPa	37					
Diametru/valoare kvs	DN / kvs	50/25.0					
Regulator electronic	Danfoss	ECL 310 230Vac with pump on refill (inside electrical cabinet) (A368)					
Pompe de circulatie							
Producator		WILO		WILO			
Tip		Stratos 50/1-12		TOP-S 30-10 (2.09)			
Debit	m3/h	15.09		1.35			
Inaltime de pompare	kPa	52		49			
Intensitate/Tensiune electrica	A / V	2.6 / 1*230		0.5 / 1*230			
Regulator de presiune diferentiala							
Producator/Model		Danfoss / AVP					
Debit/cadere de presiune	m3/h / kPa	15.16 / 37					
Diametru/valoare kvs	DN / kvs	50/25.0					
Presiune de setare	bar	0.2 / 1.0					
Informatii suplimentare							
Date intrare	Temperaturi	°C / °C	80.0 / 60.0	70.0 / 50.0	80.0 / 60.0	55.0 / 5.0	
Date intrare	Dp disponibila	kPa	20	20	20	20	
Cadere de presiune totala circuit primar		94 kPa					
Disponibil cadere de presiune substatie termica		100 kPa					

LISTA DE COMPONENTE

Obiect

Substatie termica

Cantitate	Pozitie	Tip	Descriere
1	11	Shut off valve	Danfoss, JIP, DN65, Welded
1	12	Manometer	mano_640U1412
1	12	Manometer for valve	3 way valve, 1/2 inch, Steel, Temp. Max 200C
1	13	Strainer	Danfoss, FVF, kvs 95, PN16, DN65, Temp. max 150°C, DN65, Flange, Heatir
1	14	Energy meter	Kamstrup, Multical 601, batterM-bus, EN1434, MID (calc), ULTRAFLOW 54
1	15	Sensor for energy meter	.
1	17	Pocket for pocket sensor	Danfoss, Stainless steel pocket - 100 mm
1	17	Pocket sensor	Danfoss, ESMU-100/Cu
1	18	Pressure transmitter	Danfoss, MBS 3200, range: 0-16 bar
1	19	Teaca pentru senzor de temperatura	Teaca pentru senzor de temperatura
1	19	Thermometer	Danfoss, TDL150, 0-120°C
1	20	Air outlet	.
1	24	Shut off valve	Danfoss, JIP, DN65, Welded
1	31	Drain	IVR, 660, 1/2 inch, Inside thread
1	32	Manometer	mano_640U1412
1	32	Manometer for valve	3 way valve, 1/2 inch, Steel, Temp. Max 200C
1	34	Electrical actuator for control valve	Danfoss, AMV 20, 230V
1	34	Control valve	Danfoss, VM 2, kvs 25, 2 1/2 inch, Outside thread
1	36	Shut off valve	Danfoss, JIP, DN65, Welded
1	41	Teaca pentru senzor de temperatura	Teaca pentru senzor de temperatura
1	41	Thermometer	Danfoss, TDL150, 0-120°C
1	42	Pressure transmitter	Danfoss, MBS 3200, range: 0-16 bar
1	44	Differential pressure controller	Danfoss, AVP, kvs 25, 0.2-1.0bar, DN50, Flange
1	46	Sensor for energy meter	.
1	48	Manometer	mano_640U1412
1	48	Manometer for valve	3 way valve, 1/2 inch, Steel, Temp. Max 200C
1	49	Shut off valve	Danfoss, JIP, DN65, Welded
1	73	Shut off valve	Danfoss, JIP, DN50, Welded
1	75	3 way valve,	VRG3 DN50 + AMV35 230V + adaptor - 065Z0120 + 082G3021 + 065Z031
1	76	Pump	STRATOS 40/1-12 PN16 - 2063362
1	77	None return valve	Danfoss, NVD 802, DN50, Inter flange
1	81	Drain	IVR, 660, 1/2 inch, Inside thread
1	82	Manometer	mano_640U1412
1	82	Manometer for valve	3 way valve, 1/2 inch, Steel, Temp. Max 200C
1	86	Shut off valve	Danfoss, JIP, DN50, Welded
1	155	Shut off valve	Danfoss, VFY-WH, DN65, Inter flange
1	156	Manometer	mano_640U1410
1	156	Manometer for valve	3 way valve for manometer, 1/2 inch, Tmax=150 C, standard
1	159	Pressure transmitter	Danfoss, MBS 3200, range: 0-6 bar
1	162	Strainer	Danfoss, FVF, kvs 95, PN16, DN65, Temp. max 150°C, DN65, Flange, Heatir
1	166	Safety pressure limiter SDB	Danfoss, KPI 35 range: 0.2 - 8,0 bar, Operation range 0.4-1.5 bar, G1/4 inch
1	170	Pump	WILO, Stratos 50/1-12, 1*230V, 2.6A, DN50, PN10
1	171	None return valve	Danfoss, NVD 802, DN65, Inter flange
1	175	Drain	IVR, 954, 1/2 inch, Inside thread
1	181	Safety valve	Syr, SYR 1915 DN15 5,0 BAR, 3/4 inch, Inside thread
1	185	Pocket for pocket sensor	Danfoss, Stainless steel pocket - 100 mm
1	185	Pocket sensor	Danfoss, ESMU-100/Cu
1	188	Air outlet	.
1	197	Pressure transmitter	Danfoss, MBS 3200, range: 0-6 bar
1	200	Manometer	mano_640U1410
1	200	Manometer for valve	3 way valve for manometer, 1/2 inch, Tmax=150 C, standard
1	201	Shut off valve	Danfoss, VFY-WH, DN65, Inter flange
1	341	Shut off valve	IVR, 954, 1 1/2 inch, Inside thread
1	343	Strainer	IVR, 924, kvs 22, PN16, DN40, Temp. max 90°C, 1 1/2 inch, Inside thread, B
1	345	None return valve	IVR, 999H, 1 1/2 inch, Inside thread
1	347	Manometer	mano_640U1410
1	347	Manometer for valve	3 way valve for manometer, 1/2 inch, Tmax=150 C, standard
1	349	Pressure transmitter	Danfoss, MBS 32, range: 0-6 bar
1	355	Delivered with insert	Vas acumulare SAC 1000
1	359	Pump	WILO, TOP-S 30-10 (2,09), 1*230V

