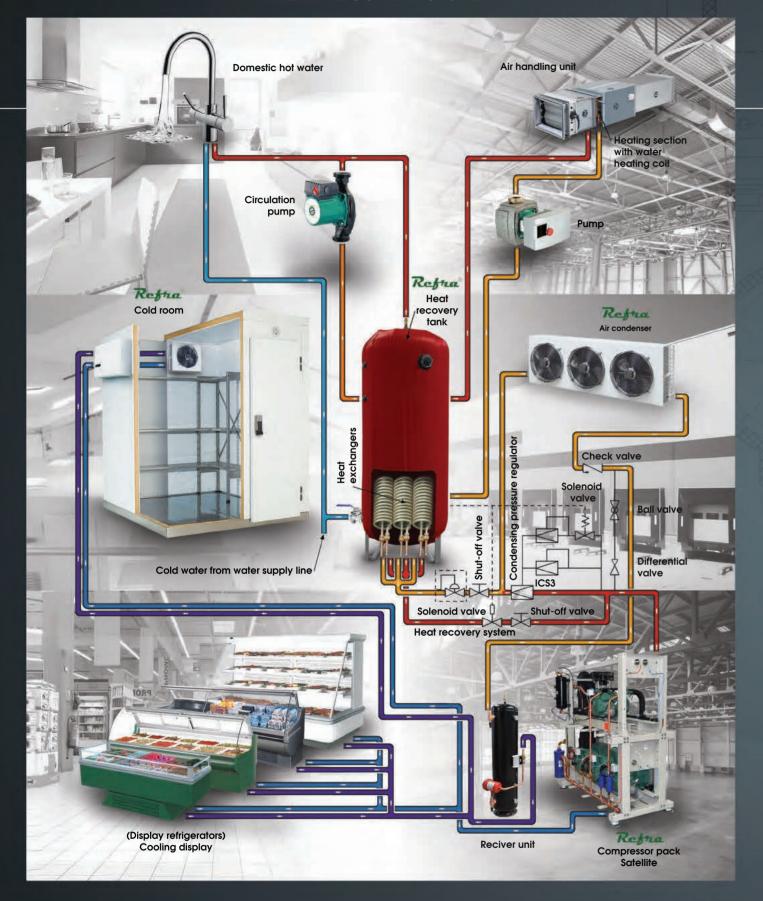
HEAT RECOVERY SYSTEM







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SANITARY WATER



By ordering please provide the following

HR800D85/4-FH2.0

Aditional heat exchanger: 2.0 I

Number of heat exchangers:

code:

Fype: Heat Recovery

Volume: 800 litres



Heat recovery line.

Heat Recovery Line is very innovative heat recovery system which is compulsory for progressive business. Today, when energy is consumed in every process, using it in most efficient way is essential for making noticeable savings. JSC "Refra" with Heat Recovery Line is offering wide range of buffers tanks with internal heat exchangers and allows reaching higher results with minimum investments.

Heat Recovery Lines designed by our engineers gives the opportunity to double the benefit gained from the energy you are using in refrigeration processes as heat, is eliminated during them. It can be used for heating sanitary water or fluid you are using for room/floor heaters - everything you need is to have buffer tank with heat recovery system inside. The tank is connected to refrigeration machine and accumulates heat which is abstracted from the process.

By having wide possible range of the buffer tanks with heat recovery system, consumers can be every appliance where heat is needed - starting with buffer tanks from carbon steel just for room heating, floor heating or similar, continuing with stainless steel tanks for sanitary water (showers, wash room, ets.) and finishing at combi - tanks where possible to have flexible hoses, smaller vessel inside or everything combined. Also, all this different solutions can be connected into one system for optimum efficiency on customer need.

Buffer tanks for Heat Recovery Lines are designed and manufactured from high standard materials and components so is reliable and durable.

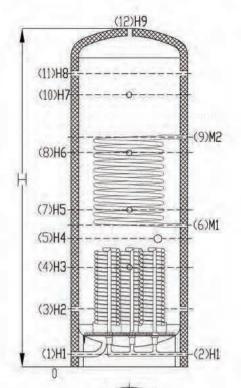
Having such buffer tank in heating system allows having significant saving in power usage. The best way to prove it is this typical example:

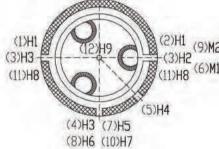
Capacity of the installed equipment in the building_

Cold storage room 1300 Watt Refrigerator for beer 2500 Watt Refrigeration equipment in the kitchen 1980 Watt 890 Watt Deep freezer Total: 6670 Watt = 6,67 kW

How much money we can save?

29120 kWh/year 3328 m 1802 EUR/year





TECHNICAL DATA

Model	Number of heat exchangers*									Diameter	н	Н,	H ₂	H ₃	H ₄	H ₅	H ₆	Н,	H ₈	H ₉	M ₁	M ₂	Area of aditional heat exchanger,
Wodei	1	2	3	4	5	6	7	8	dm³	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	m ₂
HR300D65	kW	18 kW	22 kW	37 kW					300		1260				814	866	918	970	990	1260	-	-	-
HR400D65	6								400	650	1560	440	040	380	760	920	1080	1240	1260	1560	_	1075	0,9
HR500D65									500		1860	140	840		700	980	1260	1540	1560	1860		1225	1,7
HR600D65	E E	٤							600	2160				640	1040	1440	1840	1860	2160		1375	2,4	
HR600D85	Ø16	Ø22 mm	30 kW Ø28 mm	45 kW Ø28 mm	47 KW				600		1430	430	860	390	812	908	1004	1100	1120	1430 1780	910	1015	0,7
HR800D85		24 kW @							800	850	1780	110			742	978	1214	1450	1470			1190	2,0
HR1000D85	kW								1000		2130				672	1048	1424	1800	1820	2130		1365	3,2
HR1000D110	13				Ø35 mm	W	N.	κw	1000	1200 1400 1600	1420		900	430	876	924	972	1020	1040	1420		1095	1,5
HR1200D110						KW Ø35	.W Ø35 mm 68 kW	mm 79 k	1200		1620	100			836	964	1092	1220	1240	1620		1195	2,5
HR1400D110									1400		1820				796	1004	1212	1420	1440	1820	950	1275	3,3
HR1600D110								Ø42 n	1600		2070				746	1054	1362	1670	1690	2070		1320	3,7
HR1800D110					60 kW			M.	1800		2270				706	1094	1482	1870	1890	2270		1420	4,7
HR2000D110						70 KW	75 kW	89 KW	2000		2440				672	1128	1584	2040	2060	2440		1505	5,6

^{*} Double walled heat exchanger which certified under the Pressure Equipment Directive 97/23/EC, Quality Directive DIN EN ISO 9001 and can be used under Higene Directive EN 12897:2000

COMPRESSOR'S PACK COOLING CAPACITY, kW (refrigerant R404a)

Evaporating temp./Condensing temp: -35°C/+45°C

1	Drain 3/4" (1" from 1000 litres)
2	Domestic Cold water innlet 1" (1 1/2" from 1000 litres)
3	Probe 1/2"
4	Electrical heating unit 1 ½"
5	Anode ½"
6	Pressure gauge 1/2"
7	Mechanical thermometer 1/2"
8	Connection for recirculation 1" (1 1/2" from 1000 litres)
9	Domestic Hot water oulet 1" (1 1/2" from 1000 litres)
10	Connection for refrigerant heat exchanger, D = 22mm
11	Primary circuit inlet (outlet) 1"
12	Primary circuit outlet (inlet) 1"