Ice Bank

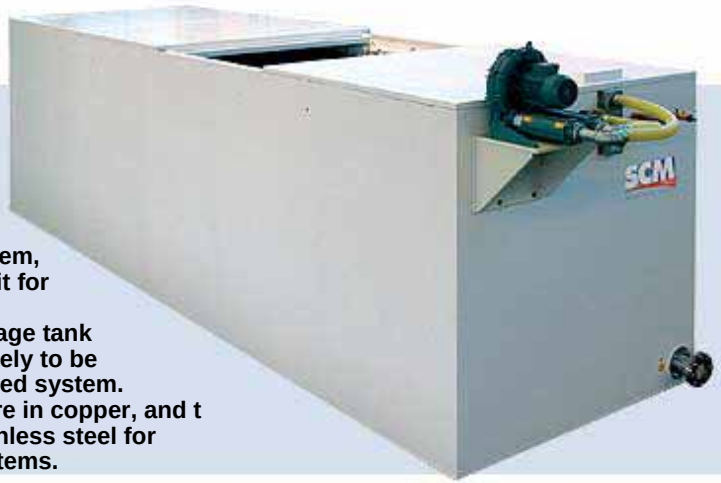
R404A-R507

Potenzialità - Capacity
65 - 1500 Kw

STICE

STICE is a chilled water production system by accumulation of energy under the form of ice.

The STICE system consists of a fibreglass-reinforced storage tank with a pneumatic shaking system, and of a condensing unit for supply.
On request, the ice storage tank can be supplied separately to be connected to a centralized system.
The evaporating coils are in copper, and t hey are available in stainless steel for glycol/water supply systems.



SCOPE OF SUPPLY

The STICE system is made up of an ice accumulatig tank and of a condensing unit UM (MT). STICE = VDC + UM
On request we can supply only the VDC ice accumulating tank with coils and air blower.

VDC ICE ACCUMULATING TANK:

- ***TANK***

A monolithic frame with double shell, both interior and exterior in polyester resin impreganted glass fabric, externally protected with a polymerized gel coat and the inner core with high density polyurethane foam.

- ***COILS***

Made on copper pipe with inox and brass supports.
Coils are supplied with expansion valves. • ICE THICKNESS SENSORS
• NON LUBRICATED AIR BLOWER

UM CONDENSING UNIT

For outdoor installation with the same characteristics of the UM MT condensing units.

Model	Vasca - Tank	Q_A	Loading time	Dati VDC - VDC data A	B	H	Weight	Hydraulic connections	Condensing unit Model	Nc	Hp	Type
		kWh	h-min	mm	mm	mm	Kg	inches				
STICE 0065.1.0055	VDC 83	85	11-50	830	2.000	2.120	575	2"	UM 040 MT *	1	4,0	HS
STICE 0065.1.0073	VDC 83	85	8-50	830	2.000	2.120	575	2"	UM 050 MT *	1	5,0	HS
STICE 0130.1.0112	VDC 133	170	11-40	1.330	2.000	2.120	780	2"	UM 075 MT *	1	7,5	HS
STICE 0130.1.0157	VDC 133	170	8-30	1.330	2.000	2.120	780	2"	UM 100 MT *	1	10,0	HS
STICE 0195.1.0183	VDC 183	226	10-50	1.830	2.000	2.120	960	3"	UM 130 MT *	1	13,0	HS
STICE 0195.1.0246	VDC 183	226	8-00	1.830	2.000	2.120	960	3"	UM 150 MT *	1	15,0	SE
STICE 0260.1.0183	VDC 268	300	14-15	2.680	2.000	2.120	1.140	3"	UM 130 MT *	1	13,0	HS
STICE 0260.1.0246	VDC 268	300	10-40	2.680	2.000	2.120	1.140	3"	UM 150 MT *	1	15,0	SE
STICE 0260.1.0338	VDC 268	300	7-50	2.680	2.000	2.120	1.140	3"	UM 250 MT	1	25,0	SE
STICE 0325.1.0246	VDC 318	400	13-15	3.180	2.000	2.120	1.320	4"	UM 150 MT *	1	15,0	SE
STICE 0325.1.0338	VDC 318	400	9-40	3.180	2.000	2.120	1.320	4"	UM 250 MT	1	25,0	SE
STICE 0325.1.0395	VDC 318	400	8-20	3.180	2.000	2.120	1.320	4"	UM 300 MT	1	30,0	SE
STICE 0390.1.0338	VDC 368	452	11-40	3.680	2.000	2.120	1.465	4"	UM 250 MT	1	25,0	SE
STICE 0390.1.0395	VDC 368	452	10-00	3.680	2.000	2.120	1.465	4"	UM 300 MT	1	30,0	SE
STICE 0390.1.0488	VDC 368	452	8-00	3.680	2.000	2.120	1.465	4"	UM 350 MT	1	35,0	SE
STICE 0455.1.0338	VDC 418	528	13-30	4.180	2.000	2.120	1.647	4"	UM 250 MT	1	25,0	SE
STICE 0455.1.0395	VDC 418	528	11-40	4.180	2.000	2.120	1.647	4"	UM 300 MT	1	30,0	SE
STICE 0455.1.0488	VDC 418	528	9-20	4.180	2.000	2.120	1.647	4"	UM 350 MT	1	35,0	SE
STICE 0520.1.0395	VDC 468	603	13-15	4.680	2.000	2.120	1.805	4"	UM 300 MT	1	30,0	SE
STICE 0520.1.0488	VDC 468	603	10-40	4.680	2.000	2.120	1.805	4"	UM 350 MT	1	35,0	SE
STICE 0520.1.0573	VDC 468	603	9-00	4.680	2.000	2.120	1.805	4"	UM 400 MT	1	40,0	SE
STICE 0650.1.0488	VDC 568	754	13-20	5.680	2.000	2.120	2.040	4"	UM 350 MT	1	35,0	SE
STICE 0650.1.0573	VDC 568	754	11-20	5.680	2.000	2.120	2.040	4"	UM 400 MT	1	40,0	SE
STICE 0650.1.0698	VDC 568	754	9-20	5.680	2.000	2.120	2.040	4"	UM 500 MT	1	50,0	SE
STICE 0780.1.0698	VDC 668	905	11-10	6.680	2.000	2.120	2.284	4"	UM 500 MT	1	50,0	SE
STICE 0780.1.0835	VDC 668	905	9-20	6.680	2.000	2.120	2.284	4"	UM 600 MT	1	60,0	SE
STICE 0910.1.0698	VDC 768	1.050	13-00	7.680	2.000	2.120	2.550	4"	UM 500 MT	1	50,0	SE
STICE 0910.1.0835	VDC 768	1.050	11-00	7.680	2.000	2.120	2.550	4"	UM 600 MT	1	60,0	SE
STICE 1040.1.0835	VDC 868	1.206	12-30	8.680	2.000	2.120	2.845	4"	UM 600 MT	1	60,0	SE

* Per maggiori informazioni su UM contattare il nostro ufficio tecnico/commerciale - For further information about UM please contact our technical/sales office

- QA: potenzialità d'accumulo - accumulation potential - speicherleistung - potentiel d'accumulation
- Per calcolo peso vasca a regime considerare 2500 kg/m² - Basement layout min 2500 kg/m² - Fundamentauslegung min. 2500 kg/m² - Porté minimal de la base 2500 kg/m²

Dati tecnici - Technical Features

R404A - R507 | Double Compressor | STICE

Model	Vasca - Tank	Q_A	Loading time	Dati VDC - VDC data					Condensing unit			
				A	B	H	Weight	Hydraulic connections	Model	Nc	Hp	Type
		kW /h	h-min	mm	mm	mm	Kg	inches				
STICE 0520.2.0492	VDC 468	603	10-45	4.680	2.000	2.120	1.805	4"	UM 2x150 MT *	2	15,0	SE
STICE 0520.2.0676	VDC 468	603	7-50	4.680	2.000	2.120	1.805	4"	UM 2x250 MT	2	25,0	SE
STICE 0650.2.0676	VDC 568	754	9-40	5.680	2.000	2.120	2.040	4"	UM 2x250 MT	2	25,0	SE
STICE 0650.2.0789	VDC 568	754	8-10	5.680	2.000	2.120	2.040	4"	UM 2x300 MT	2	30,0	SE
STICE 0780.2.0676	VDC 668	905	11-40	6.680	2.000	2.120	2.284	4"	UM 2x250 MT	2	25,0	SE
STICE 0780.2.0789	VDC 668	905	10-00	6.680	2.000	2.120	2.284	4"	UM 2x300 MT	2	30,0	SE
STICE 0780.2.0977	VDC 668	905	8-00	6.680	2.000	2.120	2.284	4"	UM 2x350 MT	2	35,0	SE
STICE 0910.2.0789	VDC 768	1.050	11-40	7.680	2.000	2.120	2.550	4"	UM 2x300 MT	2	30,0	SE
STICE 0910.2.0977	VDC 768	1.050	9-20	7.680	2.000	2.120	2.550	4"	UM 2x350 MT	2	35,0	SE
STICE 0910.2.1146	VDC 768	1.050	8-00	7.680	2.000	2.120	2.550	4"	UM 2x400 MT	2	40,0	SE
STICE 1040.2.0789	VDC 868	1.206	13-15	8.680	2.000	2.120	2.845	4"	UM 2x300 MT	2	30,0	SE
STICE 1040.2.0977	VDC 868	1.206	10-40	8.680	2.000	2.120	2.845	4"	UM 2x350 MT	2	35,0	SE
STICE 1040.2.1146	VDC 868	1.206	9-00	8.680	2.000	2.120	2.845	4"	UM 2x400 MT	2	40,0	SE
STICE 1170.2.0789	VDC 968	1.360	15-00	9.680	2.000	2.120	3.160	6"	UM 2x300 MT	2	30,0	SE
STICE 1170.2.0977	VDC 968	1.360	12-00	9.680	2.000	2.120	3.160	6"	UM 2x350 MT	2	35,0	SE
STICE 1170.2.1146	VDC 968	1.360	10-15	9.680	2.000	2.120	3.160	6"	UM 2x400 MT	2	40,0	SE
STICE 1170.2.1397	VDC 968	1.360	8-40	9.680	2.000	2.120	3.160	6"	UM 2x500 MT	2	50,0	SE
STICE 1300.2.0977	VDC 1068	1.508	13-20	10.680	2.000	2.120	3.410	6"	UM 2x350 MT	2	35,0	SE
STICE 1300.2.1146	VDC 1068	1.508	11-20	10.680	2.000	2.120	3.410	6"	UM 2x400 MT	2	40,0	SE
STICE 1300.2.1397	VDC 1068	1.508	9-20	10.680	2.000	2.120	3.410	6"	UM 2x500 MT	2	50,0	SE
STICE 1300.2.1671	VDC 1068	1.508	7-50	10.680	2.000	2.120	3.410	6"	UM 2x600 MT *	2	60,0	SE

* Per maggiori informazioni su UM contattare il nostro ufficio tecnico/commerciale - For further information about UM please contact our technical/sales office

- QA: potenzialità d'accumulo - accumulation potential - speicherleistung - potentiel d'accumulation
- Per calcolo peso vasca a regime considerare 2500 kg/m² - Basement layout min 2500 kg/m² - Fundamentauslegung min. 2500 kg/m² - Porté minimal de la base 2500 kg/m²

Dati tecnici - Technical Features

R404A-R507 | Range Evap. T° -5 / -15 °C | **UM-MT**

Model	Compressore - Compressor			Dati di progetto - Design data				Dati tecnici - Technical data						Miscellanea							
	Nc	HP	Type	Q -10/+45°C	Pass	I max	Lra	Structure	A	B	H	Weight	Fan	Air flow	Surface	Liquid receiver	Connections S	Connections L	PED Category	Sound Power	Sound Pressure
				kW	kW	A	A		mm	mm	mm	Kg	Nxø mm	m³/h	m²	lt	mm	mm		db(A)	db(A)
UM 200 MT	1	20,0	SE	28,40	12,60	33,0	160,0	MB200	2.200	1.100	2.225	830	2 x 630	15.000	393	15	35	22	II	80,2	52,2
UM 250 MT	1	25,0	SE	34,50	16,40	42,6	192,0	MB200	2.200	1.100	2.225	850	2 x 630	20.000	393	25	42	22	II	82,5	54,6
UM 300 MT	1	30,0	SE	42,50	19,80	52,3	218,0	MB200	2.200	1.100	2.255	930	2 x 800	28.000	393	25	54	22	II	83,5	55,5
UM 350 MT	1	35,0	SE	51,00	25,50	70,4	284,0	MB200	2.200	1.100	2.255	950	2 x 800	38.000	393	25	54	28	II	89,1	61,2
UM 400 MT	1	40,0	SE	59,50	21,10	75,6	347,0	MB300	3.240	1.100	2.225	1.130	3 x 630	30.000	608	25	54	28	II	85,0	56,9
UM 500 MT	1	50,0	SE	72,50	34,10	101,6	415,0	MB300	3.240	1.100	2.255	1.270	3 x 800	42.000	608	50	64	28	III	88,0	60,1
UM 600 MT	1	60,0	SE	87,50	39,40	119,0	544,0	MB300	3.240	1.100	2.255	1.240	3 x 800	57.000	608	50	64	35	III	90,0	62,1
UM 2x100 MTSR	2	10,0	HS	34,40	16,10	40,9	146,2	MB200	2.200	1.100	2.225	870	2 x 630	20.000	393	15	35	16	II	84,8	56,8
UM 2x130 MTSR	2	13,0	HS	48,80	20,60	55,8	192,6	MB200	2.200	1.100	2.255	960	2 x 800	28.000	393	15	35	16	II	85,5	57,6
UM 2x150 MTSR	2	15,0	HS	52,50	24,80	63,6	225,8	MB200	2.200	1.100	2.255	980	2 x 800	38.000	393	15	35	22	II	88,5	60,5
UM 2x150 MT	2	15,0	SE	48,40	20,84	65,8	163,0	MB300	3.240	1.100	2.225	1.220	3 x 630	30.000	608	15	42	22	II	84,0	55,8
UM 2x200 MT	2	20,0	SE	56,80	25,20	64,8	190,4	MB300	3.240	1.100	2.225	1.310	3 x 630	30.000	608	15	42	22	II	84,5	56,5
UM 2x250 MT	2	25,0	SE	69,00	32,80	87,1	232,1	MB300	3.240	1.100	2.255	1.420	3 x 800	42.000	608	25	42	22	II	83,5	55,4
UM 2x300 MT	2	30,0	SE	85,00	39,60	107,4	265,7	MB300	3.240	1.100	2.255	1.480	3 x 800	57.000	608	25	54	22	II	84,5	56,5
UM 2x350 MT	2	35,0	SE	102,00	51,00	134,0	346,4	MB400	4.280	1.100	2.255	1.740	4 x 800	56.000	823	25	54	28	II	90,0	61,8
UM 2x400 MT	2	40,0	SE	119,00	42,20	159,6	418,8	MB400	4.280	1.100	2.255	1.800	4 x 800	76.000	823	25	54	28	II	91,2	63,3
UM 2x500 MT	2	50,0	SE	145,00	68,20	209,4	509,7	MB500	5.320	1.100	2.255	2.150	5 x 800	95.000	1038	50	64	28	III	93,2	65,2

- Passo alette condensatore - Condenser fins spacing - Abstand Verflüssiger - Pas des ailettes condenseur (mm) 2,1
- STD voltage: 400V / 3+N / 50Hz