

MSRT-XSC3 + CEV-XT MSRN-XSC3 + CEV-XN

90.4÷240.4

90.4÷160.4

Remotex

Liquid chiller in two sections

MSRT-XSC3 + CEV-XT: cooling only

MSRN-XSC3 + CEV-XN: Reversible heat pump

Air cooled

Indoor installation

Capacity from 239 to 682 kW



- ✓ Double independent circuits for high reliability with scroll compressors
- ✓ Hydronic system in two sections which adapts to installations where space and noise are challenging
- ✓ High efficiency with compact dimensions (Excellence version)
- ✓ Refrigerant R410A - GWP = 2088
- ✓ Domestic hot water up to 53°C, low water temperature down to -8°C
- ✓ Two acoustic configurations
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated hydronic assembly and partial recovery



compliant
ErP

functions and features



Cooling only
(MSRT-XSC3)



Heat pump
(MSRN-XSC3)



Air cooled



Indoor
installation
(MSRT-XSC3 /
MSRN-XSC3)



Outdoor
installation
(CEV-XT /
CEV-XN)



R-410A



Hermetic
Scroll



Electronic
expansion
valve



Axitop



Hydropack



Intelliplant

accessories

D	Partial energy recovery	SCP4	Set-point compensation with 0-10 V signal
B	Water low temperature	SPC2	Set-point compensation with outdoor air temperature probe
CREFB	Device for fan consumption reduction of the external section, ECOBREEZE type	ECS	ECOSHARE function for the automatic management of a group of units
2PM	Hydropack user side with 2 pumps	PFPC	Power factor correction capacitors (cosφ > 0.9)
3PM	Hydropack load side with 3 pumps	SFSTR	Disposal for inrush current reduction
2PMV	Hydropack user side with no.2 of inverter pumps	RE-20	Electrical panel antifreeze protection for min. outdoor temperature down to -20°C
3PMV	Hydropack user side with no.3 of inverter pumps	RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential	RE-30	Electrical panel antifreeze protection for min. outdoor temperature down to -30°C
IFWX	Steel mesh strainer on the water side	RE-35	Electrical panel antifreeze protection for min. outdoor temperature down to -35°C
CSVX	Couple of manually operated shut-off valves	RE-39	Electrical panel antifreeze protection for min. outdoor temperature down to -39°C
AMRX	Rubber antivibration mounts	MHP	High and low pressure gauges
CONTA2	Energy meter	SDV	Cutoff valve on compressor supply and return
RPRPDI	Refrigerant leak detector with pump down function in the casing	PTCO	Set up for shipping via container
RCMRX	Remote control via microprocessor control		
PSX	Mains power supply		
CMSC10	Serial communication module for LonWorks supervisor		
CMSC9	Serial communication module for Modbus supervisor		
CMSC11	Serial communication module for BACnet-IP supervisor		

Accessories whose code ends with "X" are supplied separately

Compact control unit

The Remotex internal section contains all functionalities and components necessary for correct operation, already optimised and tested by Clivet for maximum efficiency and reliable results. The Hydropack pumping units are also available inside the section, ready for use.



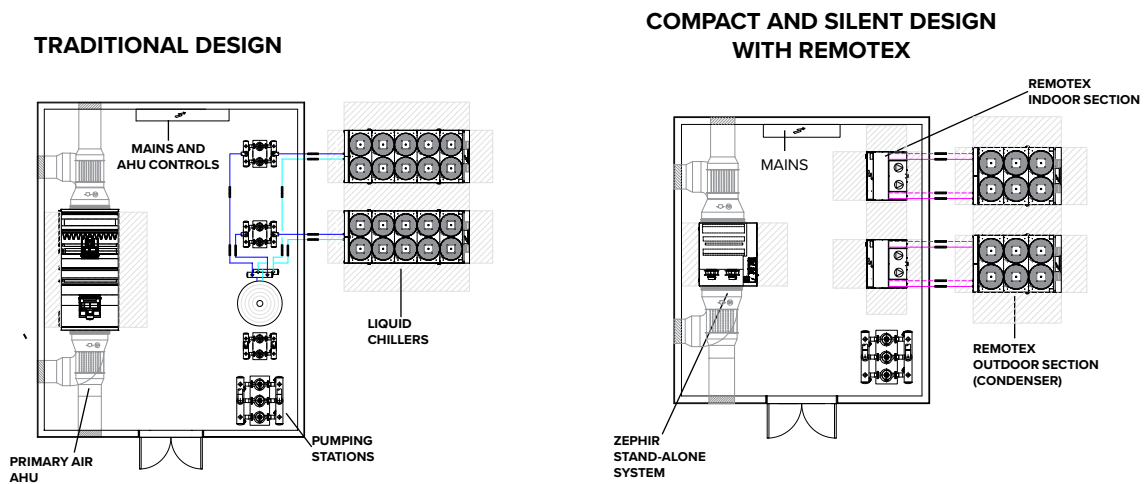
Scalable

The simple addition of further sections adjusts the capacity produced for the actual needs of the building. Always adding less space than traditional solutions. In this way, the investment is also diluted over time.



HYDRONIC

An unique system



Remotex is perfect in combination with ZEPHIR, the innovative autonomous primary air system for thermodynamic energy recovery: smaller technical rooms, maximum simplification and rapidity of plant construction, even more space and silent operation outside.

technical data

Size	►► MSRT-XSC3	90.4	100.4	110.4	120.4	140.4	160.4	180.4	200.4	220.4	240.4
- Refrigeration circuits	Nr						2				
- No. of compressors	Nr						4				
- Type of compressors	-						SCROLL				
- Refrigerant	-						R-410A				
- Standard power supply	V						400/3~/50				

Excellence - Soundproofing (Standard)

SC-EXC	♦ Cooling capacity	(1)	kW	259	278	309	345	399	440	502	559	614	682
SC-EXC	Total power input	(1)	kW	81,7	89,6	97,5	109	123	141	160	171	190	207
SC-EXC	EER	(1)	-	3,17	3,10	3,17	3,18	3,24	3,12	3,13	3,27	3,23	3,29
SC-EXC	SEER	(3)	-	4,73	4,57	4,68	4,68	4,81	4,55	4,62	4,68	4,67	4,73
SC-EXC	$\eta_{s,c}$	(3)	%	186,0	179,9	184,2	184,3	189,3	179,0	181,9	184,2	183,9	186,0
SC-EXC	Size		CEV-XT	90.0	105.0	115.0	120.0	145.0	160.0	180.0	200.0	210.0	230.0
SC-EXC	No. fans		Nr	4	6	6	6	6	8	8	10	10	10
SC-EXC	Standard airflow		l/s	23553	36583	36143	35507	34218	47084	46331	58684	57754	56458
SC-EXC	Sound power level	(2)	dB(A)	82	84	84	84	84	85	85	86	86	86

Excellence - Supersilenced

EN-EXC	♦ Cooling capacity	(1)	kW	260	281	306	352	398	435	504	549	612	680
EN-EXC	Total power input	(1)	kW	80,9	88,4	99,3	106	123	142	160	176	192	207
EN-EXC	EER	(1)	-	3,22	3,18	3,08	3,32	3,24	3,06	3,15	3,12	3,19	3,29
EN-EXC	SEER	(3)	-	4,75	4,80	4,72	4,82	4,81	4,59	4,81	4,79	4,71	4,82
EN-EXC	$\eta_{s,c}$	(3)	%	186,8	189,1	185,9	189,9	189,4	180,5	189,5	188,7	185,4	189,9
EN-EXC	Size		CEV-XT	115.0	120.0	130.0	150.0	160.0	190.0	200.0	230.0	240.0	280.0
EN-EXC	No. fans		Nr	6	6	6	8	8	10	10	10	12	12
EN-EXC	Standard airflow		l/s	28959	28247	27792	38367	37417	47772	46598	44348	55756	53050
EN-EXC	Sound power level	(2)	dB(A)	79	79	79	80	80	81	81	81	82	82

(1) Data refer to the following conditions: internal water exchanger temperature = 12/7°C; outdoor air temperature = 35°C

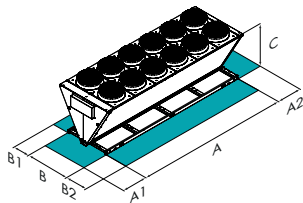
(2) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013

(3) Data calculated according to the EN 14825:2018 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

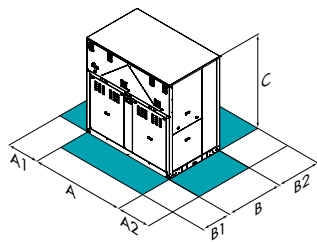
SC-EXC Compressors soundproofing (SC)-Excellence
EN-EXC Supersilenced (EN) - Excellence

dimensions and clearances



CEV-XT

(OUTDOOR SELECTION)



MSRT-XSC3
(INDOOR SELECTION)

CAUTION!

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size	MSRT-XSC3	90.4	100.4	110.4	120.4	140.4	160.4	180.4	200.4	220.4	240.4
A - Length	mm	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350
B - Width	mm	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
C - Height	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
A1	mm	700	700	700	700	700	700	700	700	700	700
A2	mm	700	700	700	700	700	700	700	700	700	700
B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
B2	mm	500	500	500	500	500	500	500	500	500	500
Operating weight	kg	1447	1611	1668	1722	1773	1818	2034	2092	2228	2357

Size	CEV-XT	90.0	105.0	115.0	120.0	130.0	145.0
A - Length	mm	2750	3700	3700	3700	3700	3700
B - Width	mm	2230	2230	2230	2230	2230	2230
C - Height	mm	2400	2400	2400	2400	2400	2400
A1	mm	1100	1100	1100	1100	1100	1100
A2	mm	700	700	700	700	700	700
B1	mm	1500	1500	1500	1500	1500	1500
B2	mm	1500	1500	1500	1500	1500	1500
Operating weight	kg	684	836	904	922	938	1018

Size	CEV-XT	150.0	160.0	180.0	190.0	200.0	210.0	230.0	240.0	280.0
A - Length	mm	4700	4700	4700	5670	5670	5670	5670	6650	6650
B - Width	mm	2230	2230	2230	2230	2230	2230	2230	2230	2230
C - Height	mm	2400	2400	2400	2400	2400	2400	2400	2400	2400
A1	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100
A2	mm	700	700	700	700	700	700	700	700	700
B1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500
B2	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Operating weight	kg	1238	1198	1356	1634	1664	1690	1820	1758	1944

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

technical data

Size	► MSRN-XSC3	90.4	100.4	110.4	120.4	140.4	160.4
- Refrigeration circuits	Nr				2		
- No. of compressors	Nr				4		
- Type of compressors	-				SCROLL		
- Refrigerant	-				R-410A		
- Standard power supply	V				400/3~/50		

Excellence - Soundproofing (Standard)

SC-EXC	◆ Cooling capacity	(1)	kW	239	254	279	309	361	402
SC-EXC	Total power input	(1)	kW	86,8	95,4	105	121	135	150
SC-EXC	EER	(1)	-	2,75	2,67	2,65	2,56	2,67	2,67
SC-EXC	SEER	(3)	-	4,13	4,07	4,03	4,00	4,11	4,10
SC-EXC	η_{sc}	(3)	%	162,3	160,0	158,1	157,0	161,3	161,0
SC-EXC	◆ Heating capacity	(4)	kW	280	307	333	366	419	476
SC-EXC	Total power input	(4)	kW	88,5	96,9	105	115	130	145
SC-EXC	COP	(4)	-	3,16	3,17	3,18	3,19	3,22	3,28
SC-EXC	Size		CEV-XN	105.0	105.0	115.0	130.0	160.0	170.0
SC-EXC	No. fans		Nr	6	6	6	6	8	8
SC-EXC	Standard airflow		l/s	36779	36779	36143	35703	48075	47272
SC-EXC	Sound power level	(2)	dB(A)	84	84	84	85	85	85
SC-EXC	Directive ErP (Energy Related Products)								
SC-EXC	SCOP - AVERAGE Climate - W35	(3)	-	3,80	3,81	3,83	3,69	3,89	3,72
SC-EXC	η_{sh}	(3)	%	149	149	150	145	153	146

Excellence - Supersilenced

EN-EXC	◆ Cooling capacity	(1)	kW	239	258	280	319	361	410
EN-EXC	Total power input	(1)	kW	85,9	93,8	104	116	134	146
EN-EXC	EER	(1)	-	2,78	2,75	2,70	2,75	2,70	2,81
EN-EXC	SEER	(3)	-	4,18	4,16	4,04	4,17	4,14	4,20
EN-EXC	η_{sc}	(3)	%	164,2	163,5	158,5	163,6	162,7	164,9
EN-EXC	◆ Heating capacity	(4)	kW	282	304	333	376	425	468
EN-EXC	Total power input	(4)	kW	88,1	96,2	104	115	129	143
EN-EXC	COP	(4)	-	3,20	3,16	3,19	3,28	3,29	3,28
EN-EXC	Size		CEV-XN	150.0	150.0	160.0	180.0	185.0	190.0
EN-EXC	No. fans		Nr	8	8	8	8	10	10
EN-EXC	Standard airflow		l/s	40357	40357	38374	36663	47773	52594
EN-EXC	Sound power level	(2)	dB(A)	80	80	80	81	81	81
EN-EXC	Directive ErP (Energy Related Products)								
EN-EXC	SCOP - AVERAGE Climate - W35	(3)	-	3,85	3,82	3,84	3,79	3,92	3,75
EN-EXC	η_{sh}	(3)	%	151	150	151	149	154	147

(1) Data refer to the following conditions: internal water exchanger temperature = 12/7°C; outdoor air temperature = 35°C

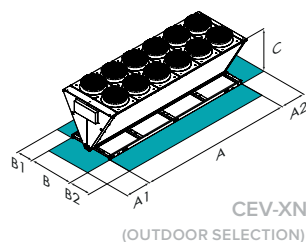
(2) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013

(3) Data calculated according to the EN 14825:2018 Regulation

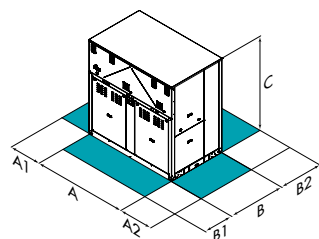
(4) Data referred to the following conditions: internal exchanger water temperature = 40/45°C; entering external exchanger air temperature = 7°C D.B. / 6°C W.B.

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤70 kW at specified reference conditions), the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤400 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

dimensions and clearances



Size	MSRN-XSC3	90.4	100.4	110.4	120.4	140.4	160.4
A - Length	mm	2350	2350	2350	2350	2350	2350
B - Width	mm	1150	1150	1150	1150	1150	1150
C - Height	mm	2210	2210	2210	2210	2210	2210
A1	mm	700	700	700	700	700	700
A2	mm	700	700	700	700	700	700
B1	mm	1200	1200	1200	1200	1200	1200
B2	mm	500	500	500	500	500	500
Operating weight	kg	1657	1807	1870	1914	1980	2068



Size	CEV-XN	105.0	115.0	130.0	150.0	160.0	170.0	180.0	185.0	190.0
A - Length	mm	3770	3770	3770	4750	4750	4750	4750	5720	5720
B - Width	mm	2230	2230	2230	2230	2230	2230	2230	2230	2230
C - Height	mm	2420	2420	2420	2420	2420	2420	2420	2420	2420
A1	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100
A2	mm	700	700	700	700	700	700	700	700	700
B1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500
B2	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Operating weight	kg	1082	1100	1174	1282	1386	1408	1532	1676	1706

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

CAUTION!

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.