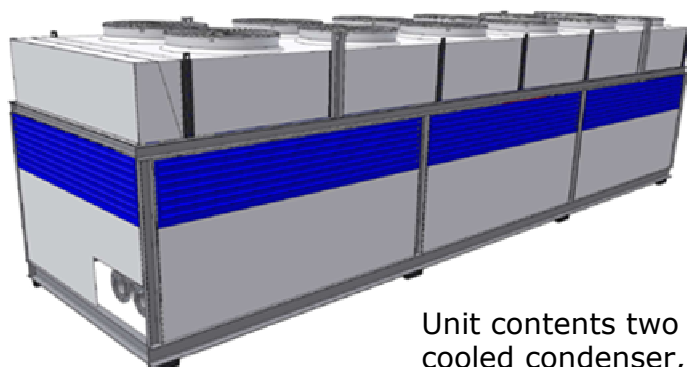


# Compact units for ice scating rings



**Compact unit for outside placement, for cooling of liquid for ice scating rings (hockey stadion)**

Unit contents two semihermetic screw compressors, air cooled condenser, shell and tube evaporator, two electronic expansion valves, power and regulating electro control box, two inline pumps (one as 100% reserve), expansion tank, water filter, bypass, two recuperation heat exchangers for heating of water (hot water, heating of ground under ring, heating of snow tank)

## Technical data

Type		WTE-D2KCP-399	WTE-D2KCP-447
Cooling capacity*	kW	399	447
Compressors power input*	kW	215	252
Working weight	kg	6200	6500
Refrigerant		R404A	R407C
Refrigerant charge	kg	150	150
Dimensions			
length	mm	8900	8900
width	mm	2400	2400
height	mm	2500	2500
Controlling regulator		Energy XT-PRO	Energy XT-PRO
Condenser			
Fans	ks	12	12
Air flow	m3/h	227268	227268
Evaporator		Shell and tube	Shell and tube
Connection of liquid	flange input/output	DN150 PN16	DN200 PN16
Liquid	Eth. glycol 35%	Coolstar	Coolstar
Input/output	°C	-9°C/-12°C	-9°C/-12°C
Flow	m3/h	130	145
Available pressure	kPa	200	250
Expansion tank	l	400	400
Electric feeding	V-phases-Hz	400-3-50	400-3-50

\* at working conditions: evaporating temperature -18°C, ambient temperature +29°C

## Energy requirement

Unit	WTE-D2KCP-399	WTE-D2KCP-447
Compressors	215kW	252kW
Condenser fans	31,2kW	31,2kW
Pump	15kW	22kW
Other	2kW	2kW
<b>Total</b>	<b>263,2kW</b>	<b>307,2kW</b>
<b>Maximal current*</b>	<b>530A</b>	<b>580A</b>

\* for design of main power supply

## Energy efficiency of the unit for different ambient temperatures

Cooling capacity, power input and energy efficiency ration\* depends on ambient temperature

\*energy efficiency ration (EER) - ration between cooling capacity and power input

Unit	WTE-D2KCP-399			WTE-D2KCP-447		
	Ambient (°C)	Cooling cap. (kW)	Power input (kW)*	EER	Cooling cap. (kW)	Power input (kW)*
35	346	246	1,41	404	285	1,42
25	433	198	2,18	479	230	2,09
15	505	162	3,11	541	185	2,93
10	535	145	3,69	570	160	3,56

\*power input of compressors

With decreasing of ambient temperature rises cooling capacity and time for cooling down the ice ring is shorter

## Dimensions

