

Chiller, air source for outdoor installation
334-885 kW



Outdoor unit for the production of chilled water with hermetic rotary Scroll compressors, ozone-friendly refrigerant R410A, axial-flow fans, shell and tubes exchanger and electronic expansion valve. The range is composed by units equipped with four, six and eight compressors in multi-circuit configuration.

Version

B	Basic
SL	Super-low noise version
CA	High efficiency version
SL-CA	Super-low noise, high efficiency version

Configurations

-	Basic function
D	Partial condensing heat recovery function
R	Total condensing heat recovery function

Features

REFRIGERANT GAS R410A

The use of R410A allowed to achieve better energy efficiencies with environment full respect (ODP = 0)

ALUMINIUM MICRO-CHANNEL HEAT EXCHANGERS

This new range of chiller uses aluminum micro-channel condensers that ensure a premium level of efficiency. This solution also allows to reduce the refrigerant charge with respect to traditional copper/aluminum coils, assuring the minimum allowable ratio between the refrigerant volume and the power capacity thus making this product range unique in the market, also improving the resistance against corrosion in saline or corrosive atmospheres.

EXCHANGER

The shell and tube exchanger allows to achieve the highest flexibility on the units installation, keeping the efficiency at the maximum level. For this reason, NECS represents the best choice for all the hydronic application on the residential, commercial and industrial markets.

ELECTRONIC EXPANSION VALVE SUPPLIED STANDARD

The use of the electronic expansion valve generates considerable benefits, especially in cases of variable demand and different external conditions. It was introduced into these units as a result of accurate design choices concerning the cooling circuit and the optimisation of operation in various different working conditions

INTEGRATED HYDRONIC GROUP

The optional built-in hydronic module already contains the main water circuit components; it is available with single or twin in-line, for achieving both low or high head.

Accessory

- Set-up for remote connectivity with ModBus/Echelon protocol cards
- Remote control keyboard (distance to 200m and to 500m)
- Soft starters

Controls

W3000SE Compact

The controller W3000SE Compact is characterized by proprietary advanced functions and settings. The keyboard commands and a fully functional LCD display, which allows for consultation and intervention unit by means of a multi-layer menu with a choice of the language setting. The temperature control algorithm is based on the exclusive QuickMind with self-adaptive logic, useful in systems with reduced water content. Alternatively, controls may be set proportional or proportional-integral. The diagnostic includes a comprehensive alarm management, with the black box functions (PC) and alarm (via display or PC) for a better analysis of the unit. For systems consisting of multiple units you can control the resource owners through optional devices. It can also be implemented in the accounts of consumption and performance. Supervision is provided via several options, with proprietary devices or integrated into third party systems using the ModBus, Bacnet, Bacnet-over-IP, Echelon LonWorks. Compatibility with remote keyboard (management up to 10 units). The presence of programmable timer allows the creation of a profile containing the operation up to 4 days and 10 bands. To defrost logic is employed owner of an auto-adaptive, characterized by monitoring multiple operating parameters and environmental conditions. This reduces the number and duration of the defrost for the benefit of the overall energy efficiency.



NECS / B		1314	1414	1614	1715	1816	2015	2116
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	354	379	413	458	501	526	569
Total power input	(1) kW	124	130	148	160	172	184	195
EER	(1) kW/kW	2,85	2,91	2,80	2,86	2,92	2,86	2,91
ESEER	(1) kW/kW	4,16	4,24	4,04	4,19	4,21	4,07	4,18
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	353	377	412	456	499	524	567
EER	(1)(2) kW/kW	2,80	2,87	2,75	2,81	2,87	2,82	2,87
ESEER	(1)(2) kW/kW	3,95	4,06	3,86	3,99	3,99	3,91	4,00
Cooling energy class		C	C	C	C	C	C	C
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7) kW	353	377	412	456	499	524	567
SEER	(7)(8)	4,11	4,22	4,10	4,17	4,22	4,10	4,23
Performance ηs	(7)(9) %	162	166	161	164	166	161	166
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	16,94	18,12	19,77	21,91	23,97	25,14	27,23
Pressure drop	(1) kPa	54,0	43,8	52,2	48,5	58,1	39,3	46,1
REFRIGERANT CIRCUIT								
Compressors nr.	N°	4	4	4	5	6	5	6
No. Circuits	N°	2	2	2	2	2	2	2
Refrigerant charge	kg	39,0	45,0	45,0	53,0	58,0	63,0	67,0
NOISE LEVEL								
Sound Pressure	(3) dB(A)	64	64	64	64	65	65	64
Sound power level in cooling	(4)(5) dB(A)	96	96	96	96	97	97	97
SIZE AND WEIGHT								
A	(6) mm	3905	3905	3905	5080	5080	5080	6255
B	(6) mm	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6) kg	2730	2770	2800	3400	3650	3690	4200

NECS / B		2316	2416	2418	2618	2818	3018	3218
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	604	635	665	708	759	793	827
Total power input	(1) kW	214	219	234	249	261	279	296
EER	(1) kW/kW	2,82	2,90	2,85	2,85	2,92	2,84	2,80
ESEER	(1) kW/kW	4,11	4,08	4,12	4,18	4,27	4,20	4,07
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	602	632	663	705	757	791	824
EER	(1)(2) kW/kW	2,78	2,86	2,81	2,80	2,88	2,81	2,76
ESEER	(1)(2) kW/kW	3,94	3,90	3,94	3,98	4,10	4,03	3,90
Cooling energy class		C	C	C	C	C	C	C
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7) kW	602	632	663	705	757	791	824
SEER	(7)(8)	4,15	4,14	4,12	4,17	4,29	4,22	4,10
Performance ηs	(7)(9) %	163	162	162	164	168	166	161
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	28,87	30,36	31,81	33,85	36,31	37,95	39,53
Pressure drop	(1) kPa	44,3	49,0	48,5	54,9	42,7	46,7	50,6
REFRIGERANT CIRCUIT								
Compressors nr.	N°	6	6	8	8	8	8	8
No. Circuits	N°	3	2	4	4	4	4	4
Refrigerant charge	kg	67,0	76,0	75,0	82,0	93,0	93,0	93,0
NOISE LEVEL								
Sound Pressure	(3) dB(A)	64	65	65	65	66	66	66
Sound power level in cooling	(4)(5) dB(A)	97	98	98	98	99	99	99
SIZE AND WEIGHT								
A	(6) mm	6255	6255	7430	7430	7430	7430	7430
B	(6) mm	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6) kg	4220	4350	5260	5300	5370	5400	5430

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
 - 2 Values in compliance with EN14511-3:2013.
 - 3 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.
 - 4 Sound power on the basis of measurements made in compliance with ISO 9614.
 - 5 Sound power level in cooling, outdoors.
 - 6 Unit in standard configuration/execution, without optional accessories.
 - 7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
 - 8 Seasonal space heating energy index
 - 9 Seasonal energy efficiency of the space cooling
- The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.
 Certified data in EUROVENT

NECS / SL		1314	1414	1614	1715	1816	2015	2116
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	334	358	397	431	465	498	532
Total power input	(1) kW	129	137	153	168	183	192	206
EER	(1) kW/kW	2,58	2,61	2,60	2,57	2,55	2,60	2,58
ESEER	(1) kW/kW	4,29	4,31	4,21	4,33	4,36	4,26	4,37
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	332	357	396	430	463	496	531
EER	(1)(2) kW/kW	2,55	2,58	2,56	2,53	2,51	2,57	2,55
ESEER	(1)(2) kW/kW	4,10	4,15	4,03	4,14	4,15	4,12	4,19
Cooling energy class		D	D	D	D	D	D	D
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7) kW	332	357	396	430	463	496	531
SEER	(7)(8)	4,03	4,12	4,02	4,13	4,13	4,14	4,21
Performance ηs	(7)(9) %	158	162	158	162	162	163	165
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	15,95	17,13	19,01	20,63	22,24	23,80	25,46
Pressure drop	(1) kPa	47,8	39,2	48,2	43,0	50,0	35,2	40,3
REFRIGERANT CIRCUIT								
Compressors nr.	N°	4	4	4	5	6	5	6
No. Circuits	N°	2	2	2	2	2	2	2
Refrigerant charge	kg	42,0	45,0	54,0	57,0	55,0	72,0	71,0
NOISE LEVEL								
Sound Pressure	(3) dB(A)	54	54	54	54	54	54	54
Sound power level in cooling	(4)(5) dB(A)	86	86	86	87	87	87	87
SIZE AND WEIGHT								
A	(6) mm	5080	5080	5080	6255	6255	6255	7430
B	(6) mm	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6) kg	3060	3160	3200	3900	4110	4190	4640

NECS / SL		2316	2416	2418	2618	2818	3018	3218
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	579	596	616	666	718	758	795
Total power input	(1) kW	220	230	245	258	275	288	306
EER	(1) kW/kW	2,63	2,59	2,52	2,58	2,61	2,63	2,60
ESEER	(1) kW/kW	4,38	4,29	4,32	4,39	4,36	4,39	4,27
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	577	594	614	664	716	755	792
EER	(1)(2) kW/kW	2,60	2,56	2,49	2,55	2,58	2,60	2,56
ESEER	(1)(2) kW/kW	4,20	4,12	4,15	4,19	4,19	4,21	4,09
Cooling energy class		D	D	E	D	D	D	D
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7) kW	577	594	614	664	716	755	792
SEER	(7)(8)	4,21	4,14	4,11	4,16	4,20	4,21	4,11
Performance ηs	(7)(9) %	165	163	162	163	165	166	161
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	27,70	28,49	29,45	31,87	34,32	36,24	38,00
Pressure drop	(1) kPa	40,8	43,1	41,6	48,7	38,2	42,6	46,8
REFRIGERANT CIRCUIT								
Compressors nr.	N°	6	6	8	8	8	8	8
No. Circuits	N°	3	2	4	4	4	4	4
Refrigerant charge	kg	77,0	86,0	89,0	89,0	93,0	103	112
NOISE LEVEL								
Sound Pressure	(3) dB(A)	55	55	55	56	57	57	57
Sound power level in cooling	(4)(5) dB(A)	88	88	88	89	90	90	90
SIZE AND WEIGHT								
A	(6) mm	7430	7430	7430	8605	9780	9780	9780
B	(6) mm	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6) kg	4730	4790	5410	5810	6160	6200	6250

Notes:

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.

2 Values in compliance with EN14511-3:2013.

3 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

Certified data in EUROVENT

NECS / CA		1314	1414	1614	1715	1816	2015	2116
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	370	391	438	481	518	549	591
Total power input	(1) kW	120	125	142	154	166	177	189
EER	(1) kW/kW	3,10	3,13	3,10	3,12	3,11	3,10	3,12
ESEER	(1) kW/kW	4,45	4,48	4,39	4,54	4,50	4,42	4,48
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	369	390	436	479	515	547	589
EER	(1)(2) kW/kW	3,04	3,08	3,04	3,07	3,05	3,06	3,07
ESEER	(1)(2) kW/kW	4,22	4,28	4,17	4,30	4,24	4,23	4,28
Cooling energy class		B	B	B	B	B	B	B
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7) kW	369	390	436	479	515	547	589
SEER	(7)(8)	4,16	4,25	4,14	4,26	4,19	4,23	4,27
Performance ηs	(7)(9) %	164	167	163	167	165	166	168
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	17,72	18,72	20,97	23,01	24,75	26,26	28,28
Pressure drop	(1) kPa	59,0	46,8	58,7	53,5	61,9	42,9	49,8
REFRIGERANT CIRCUIT								
Compressors nr.	N°	4	4	4	5	6	5	6
No. Circuits	N°	2	2	2	2	2	2	2
Refrigerant charge	kg	46,0	54,0	54,0	62,0	67,0	72,0	77,0
NOISE LEVEL								
Sound Pressure	(3) dB(A)	65	65	65	64	65	65	65
Sound power level in cooling	(4)(5) dB(A)	97	97	97	97	98	98	98
SIZE AND WEIGHT								
A	(6) mm	5080	5080	5080	6255	6255	6255	7430
B	(6) mm	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6) kg	3060	3100	3130	3800	4050	4090	4540

NECS / CA		2316	2416	2418	2618	2818	3018	3218
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	633	657	701	740	785	831	885
Total power input	(1) kW	204	212	225	239	250	266	283
EER	(1) kW/kW	3,10	3,10	3,11	3,10	3,13	3,12	3,13
ESEER	(1) kW/kW	4,48	4,37	4,44	4,46	4,50	4,49	4,45
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	630	655	699	737	782	828	881
EER	(1)(2) kW/kW	3,06	3,05	3,06	3,04	3,09	3,07	3,07
ESEER	(1)(2) kW/kW	4,27	4,16	4,22	4,22	4,30	4,28	4,22
Cooling energy class		B	B	B	B	B	B	B
ENERGY EFFICIENCY								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)								
Ambient refrigeration								
Prated,c	(7) kW	630	655	699	737	782	828	881
SEER	(7)(8)	4,28	4,17	4,18	4,17	4,28	4,27	4,21
Performance ηs	(7)(9) %	168	164	164	164	168	168	166
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) l/s	30,26	31,43	33,55	35,39	37,52	39,72	42,31
Pressure drop	(1) kPa	48,6	52,5	54,0	60,0	45,6	51,1	58,0
REFRIGERANT CIRCUIT								
Compressors nr.	N°	6	6	8	8	8	8	8
No. Circuits	N°	3	2	4	4	4	4	4
Refrigerant charge	kg	81,0	86,0	89,0	99,0	112	112	112
NOISE LEVEL								
Sound Pressure	(3) dB(A)	66	66	66	66	67	67	67
Sound power level in cooling	(4)(5) dB(A)	99	99	99	99	100	100	100
SIZE AND WEIGHT								
A	(6) mm	7430	7430	9780	9780	9780	9780	9780
B	(6) mm	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6) kg	4630	4690	5930	5970	6040	6070	6110

Notes:

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.

2 Values in compliance with EN14511-3:2013.

3 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

Certified data in EUROVENT

NECS / SL-CA			1314	1414	1614	1715	1816
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	370	394	440	481	522
Total power input	(1)	kW	119	126	142	154	167
EER	(1)	kW/kW	3,11	3,12	3,11	3,12	3,12
ESEER	(1)	kW/kW	4,57	4,56	4,44	4,54	4,58
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	369	393	438	480	520
EER	(1)(2)	kW/kW	3,07	3,08	3,06	3,08	3,08
ESEER	(1)(2)	kW/kW	4,38	4,39	4,27	4,39	4,40
Cooling energy class			B	B	B	B	B
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	369	393	438	480	520
SEER	(7)(8)		4,32	4,37	4,26	4,40	4,37
Performance ηs	(7)(9)	%	170	172	167	173	172
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	17,72	18,85	21,05	22,99	24,94
Pressure drop	(1)	kPa	41,9	35,9	44,8	32,9	38,7
REFRIGERANT CIRCUIT							
Compressors nr.		N°	4	4	4	5	6
No. Circuits		N°	2	2	2	2	2
Refrigerant charge		kg	53,0	67,0	67,0	77,0	81,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	53	53	53	54	54
Sound power level in cooling	(4)(5)	dB(A)	86	86	86	87	87
SIZE AND WEIGHT							
A	(6)	mm	6255	6255	6255	7430	7430
B	(6)	mm	2260	2260	2260	2260	2260
H	(6)	mm	2450	2450	2450	2450	2450
Operating weight	(6)	kg	3490	3700	3730	4400	4650

NECS / SL-CA			2015	2116	2316	2416	2418
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1)	kW	550	592	638	662	695
Total power input	(1)	kW	177	189	204	213	223
EER	(1)	kW/kW	3,11	3,13	3,12	3,11	3,12
ESEER	(1)	kW/kW	4,52	4,60	4,59	4,53	4,58
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2)	kW	549	590	636	660	693
EER	(1)(2)	kW/kW	3,08	3,08	3,08	3,06	3,09
ESEER	(1)(2)	kW/kW	4,35	4,40	4,39	4,33	4,43
Cooling energy class			B	B	B	B	B
ENERGY EFFICIENCY							
SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)							
Ambient refrigeration							
Prated,c	(7)	kW	549	590	636	660	693
SEER	(7)(8)		4,37	4,39	4,40	4,33	4,39
Performance ηs	(7)(9)	%	172	173	173	170	173
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1)	l/s	26,32	28,29	30,52	31,68	33,25
Pressure drop	(1)	kPa	36,8	42,5	44,7	48,1	35,8
REFRIGERANT CIRCUIT							
Compressors nr.		N°	5	6	6	6	8
No. Circuits		N°	2	2	3	2	4
Refrigerant charge		kg	86,0	91,0	96,0	98,0	98,0
NOISE LEVEL							
Sound Pressure	(3)	dB(A)	54	54	55	55	55
Sound power level in cooling	(4)(5)	dB(A)	87	87	88	88	88
SIZE AND WEIGHT							
A	(6)	mm	7430	8605	8605	8605	9780
B	(6)	mm	2260	2260	2260	2260	2260
H	(6)	mm	2450	2450	2450	2450	2450
Operating weight	(6)	kg	4510	4990	5360	5360	6100

Notes:

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.

2 Values in compliance with EN14511-3:2013.

3 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

Certified data in EUROVENT

