

# Precision Air Conditioning

## @DNOVA

2.5 to 38 kW

TELECOM UNITS



**@DNOVA are units designed for telecommunication applications. Efficient, reliable, precision control equipment.**

Designed for indoor or outdoor installation, maintaining temperature management in technological environments with high dissipation of sensitive power.

The THN and THX units are Plug&Play and only require an attachment and an electrical connection.

All of the components are accessible from the front of the units, making maintenance and servicing easier.

### AVAILABLE MODELS AND CONFIGURATIONS

- **THN:**  
Compact unit for indoor installation (Upflow/Downflow/Displacement).
- **THX:**  
Compact unit for outdoor installation (Upflow/Downflow depending on the model).
- **THS:**  
Unit for vertical or horizontal installation.

### CONTROL

**@DNOVA™ units are fitted as standard with basic microprocessors and liquid crystal displays.**

### COMPONENTS

The unit's structure is made from thick galvanised sheet metal, and the outer part of aluminium alloy 5005 (THX) or galvanised steel and painted sheet metal RAL 9002 (THN, THS).

Rotary or scroll compressors available in different HFC refrigerants (R410A, R134A, R407C).

@DNOVA (THX, THN) are fitted with fans with backward-curved blades.

Heat exchanger with fins of large front surface area.

Evaporator made with copper pipes extended mechanically over aluminium fins. Hydrophilic treatment to facilitate condensation water drain-off.

Condensate drip tray made from galvanised steel as standard (stainless steel available as an option).

### AVAILABLE OPTIONS

- Free-cooling management and damper
- Dual feed system
- Potential-free contacts for alarms
- Epoxy coating on the condenser
- Resistor
- Electronic expansion valve
- EU4 filtration + clogged filter sensor
- Condensation control
- Interconnection (Modbus, TCP/IP, Bacnet, etc.)

@DNOVA - R410A	THN	045H	056H	073H	090H	105H	120H	150H	170H	180H	200H	220H	250H
Total cooling capacity <sup>(1)</sup>	kW	4,3	6	7	10,8	10,6	12,7	14,9	16,3	17,8	20,9	24,8	27,9
Sensitive cooling capacity		4,3	5,4	6,6	10,6	10,6	11,5	14,7	15,4	17,8	20,9	24,8	26,2
Sensitive heat ratio		1	0,9	0,95	0,99	1	0,91	0,99	0,95	1	1	1	0,94
Number of scroll compressors <sup>(2)</sup>		1r											
Air flow	m <sup>3</sup> /h	1450	1450	2100	3020	3020	3020	3800	3800	5500	5500	6500	6500
Sound pressure level	dB(A)	69	69	69	72	72	72	72	72	80	80	81	82
Sound pressure level (10 m outdoors)	dB(A)	41	41	41	44	44	44	44	44	52	52	53	54
Height	mm	1850	1850	1850	1850	1850	1850	1850	1850	2050	2050	2050	2050
Width	mm	800	800	800	1000	1000	1000	1160	1160	1500	1500	1500	1500
Depth	mm	550	550	550	550	550	550	550	550	800	800	800	800

@DNOVA - R410A	THX	045H	056H	073H	0902H	090H	105H	1102H	120H	145H	1302H	230H	290H	320H
Total cooling capacity <sup>(1)</sup>	kW	4,2	5,9	4,1	8	10	10,8	11,2	12,7	14,4	14,2	23	28,9	37,8
Sensitive cooling capacity		4,2	5,1	6,5	8	9,2	10,7	9,5	11,5	13,2	12,5	23	27,2	37,8
Sensitive heat ratio		1	0,88	0,92	1	0,92	0,99	0,85	0,91	0,92	0,88	1	0,94	1
Number of scroll compressors <sup>(2)</sup>		1r	1	1	2	1	1	2	1	1	2	2	2	1
Air flow	m <sup>3</sup> /h	1450	1450	2150	2800	3020	3020	2800	3020	3020	2800	6500	6500	10000
Sound pressure level	dB(A)	69	70	70	72	71	71	72	71	74	74	82	82	83
Sound pressure level (10 m outdoors)	dB(A)	42	43	43	45	44	44	45	44	46	46	51	51	52
Height	mm	1580	1580	1580	1790	1630	1630	1790	1790	1790	1790	2050	2050	2260
Width	mm	804	804	804	1000	1000	1000	1000	1000	1000	1000	1600	1600	2530
Depth	mm	498	498	498	596	596	596	596	596	596	596	815	815	975

@DNOVA - R410A	THXD	0045H	0056H	0073H	0090H	0105H	0120H	0145H
Total cooling capacity <sup>(1)</sup>	kW	4,3	5,9	6,6	9,1	10,2	12,6	13,3
Sensitive cooling capacity		4,3	5,3	5,6	7,28	10,2	11,8	12,2
Sensitive heat ratio		1	0,9	0,85	0,8	1	0,94	0,92
Number of scroll compressors <sup>(2)</sup>		1r	1	1	1	1	1	1
Air flow	m <sup>3</sup> /h	1400	1400	1400	1400	3200	3200	3200
Sound pressure level	dB(A)	69	70	70	70	71	71	74
Sound pressure level (10 m outdoors)	dB(A)	41	43	43	43	44	44	46
Height	mm	1040	1040	1040	1040	1040	1040	1040
Width	mm	2145	2145	2145	2275	2275	2275	2275
Depth	mm	730	730	730	730	730	730	730

@DNOVA - R410A	THS	025H	035H	045H	056H	073H	090H	105H	120H	145H	310H	381H
Total cooling capacity <sup>(1)</sup>	kW	2,9	4,1	4,6	6,3	7,6	9,8	10,5	13,4	15,3	31,2	39,2
Sensitive cooling capacity		2,9	4	4,6	5,6	7,2	9	9,3	12,3	13,1	30,5	34,5
Sensitive heat ratio		1	0,99	1	0,89	0,95	0,92	0,89	0,92	0,86	0,98	0,88
Number of scroll compressors <sup>(2)</sup>		1r	1r	1r	1	1	1	1	1	1	1	1
Evaporator air flow	m <sup>3</sup> /h	950	930	1400	1400	2300	2300	2300	3200	3200	7750	7750
Condenser air flow		2250	2050	3450	3350	3350	5100	5100	5580	5450	9300	16280
Sound pressure level	dB(A)	62	65	65	67	68	65	71	68	70	73	75
Sound pressure level (10 m outdoors)	dB(A)	34	37	37	39	40	37	42	40	42	45	47

INTERIOR UNIT												
Height	mm	350	350	350	350	350	350	350	400	400	685	675
Width	mm	590	590	990	990	990	990	990	1090	1090	1090	1090
Depth	mm	1040	1040	1040	1040	1040	1040	1040	1140	1140	1500	1500

EXTERIOR UNIT												
Height	mm	580	580	630	630	630	630	630	1128	1128	1300	1485
Width	mm	600	600	990	990	990	990	990	1120	1120	1565	1990
Depth	mm	350	350	360	360	360	360	360	578	578	600	950

(1) Indoor conditions 27°C/40% / Outdoor conditions 35°C  
(2) 1r: Rotary compressor