



**TRANE**<sup>®</sup>

# *High wall fan coil units UniTrane™ W-Line*



**IR** Ingersoll Rand<sup>®</sup>

# High wall fan coil units

## UniTrane™ W-Line

*UniTrane™ W-Line is Trane's high wall fan coil unit designed for optimum comfort and high performance. Available in 4 sizes and many different configurations, W-Line is easy to install and use, just like a standard fan coil. The modular design allows for mounting 2-way or 3-way valves and condensate pump into the casing, without any impact on performance and footprint.*

Thanks to its modern and appealing design, the W-Line can be used for a wide range of 2-pipe applications. All sizes can be provided with standard AC fan motors (WFS) or low energy consumption EC fan motors (WFE).

### Additionally, the following versions are available:

- **WFS/E:** Wired wall control
- **WFS/E-IR:** Infra-red remote control (single unit control)
- **WFS/E-MB:** MB electronic board for Modbus management (multiple unit control)
- **WFS/E-EH:** Electric heater

### Main options (factory-mounted or field-installed)

- 2-way valve including control kit: ON-OFF, with electric motor and mounting kit
- 3-way valve including control kit: 230V ON-OFF, with electric motor and mounting kit with micrometric lockshield valve
- Condensate drain pump

### Key features

- **Casing:** Made of auto-extinguishing ABS UL94 HB plastic with high specifications and great resistance to aging. The diffusion louver can be adjusted manually or by remote control.
- **Air filter:** Washable synthetic filter, readily accessible.
- **Electric motor:** Single phase motor with 3 connected speeds and internal thermal protection (WFS models). Electronically commutated motor (BLAC type with permanent magnets) available on WFE models.
- **Heat exchanger:** Drawn copper tube with aluminium fins mechanically bonded onto the tube by an expansion process. The coil has two 1/2 inch BSP internal connections and 1/8 inch BSP air vent and drain.
- **Condensate drain pan:** Made of polypropylene; Solid construction to improve condensate management while preventing corrosion.
- **Easy packaging:** A cardboard installation template is supplied with every unit to facilitate the mounting on the wall.



# Product data

## Standard fan motor (WFS)

Size	Speed	01			02			03			04		
		MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX
Airflow	m <sup>3</sup> /h	205	270	375	250	365	480	280	375	545	440	610	790
Total cooling capacity	kW	1.24	1.5	1.87	1.43	1.84	2.18	1.89	2.32	3.03	2.62	3.26	3.81
Sensible cooling capacity	kW	0.92	1.14	1.46	1.07	1.43	1.75	1.35	1.69	2.27	1.93	2.47	2.98
Heating capacity	kW	1.6	2	2.58	1.88	2.39	3.09	2.26	2.84	3.86	3.26	4.2	5.07
Fan power input	W	12	14	18	12	18	24	16	29	29	23	32	48
Sound power (Lw)	dB(A)	35	32	39	30	38	44	26	39	39	34	42	48

## Low energy consumption fan motor (WFE)

Size	Speed	01			02			03			04		
		MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX
Airflow	m <sup>3</sup> /h	190	290	415	260	375	510	270	420	620	375	550	770
Total cooling capacity	kW	1.17	1.58	2.00	1.47	1.87	2.26	1.83	2.53	3.29	2.34	3.05	3.75
Sensible cooling capacity	kW	0.86	1.20	1.57	1.10	1.46	1.83	1.31	1.86	2.50	1.70	2.29	2.92
Heating capacity	kW	1.50	2.12	2.78	1.94	2.58	3.23	2.20	3.15	4.25	2.87	3.88	4.99
Fan power input	W	6	9	15	7	12	21	6	11	20	9	16	30
Sound power (Lw)	dB(A)	35	46	52	40	47	55	37	45	53	43	49	57

**Notes:**

Power supply: 230-240V / 1 Ph / 50-60 hz

Min/Med/Max are standard factory-wired speeds. More speeds are available.

COOLING (summer operation) : Entering air temperature: + 27°C d.b. / + 19°C w.b. ; Water temperature: + 7°C E.W.T. / + 12°C L.W.T.

HEATING (winter operation): Entering air temperature: + 20°C; Water temperature: + 50°C E.W.T. ; Water flow rate as for the cooling conditions

### EC fan motor boosts savings and comfort

The EC fan motor found in UniTrane™ model WFE

delivers significant savings by reducing

power consumption by an average of 67%.

Thanks to continuously variable fan speed, noisy switching

is eliminated and sound emissions are minimized.

Comfort is optimized by the motor's capability to deliver

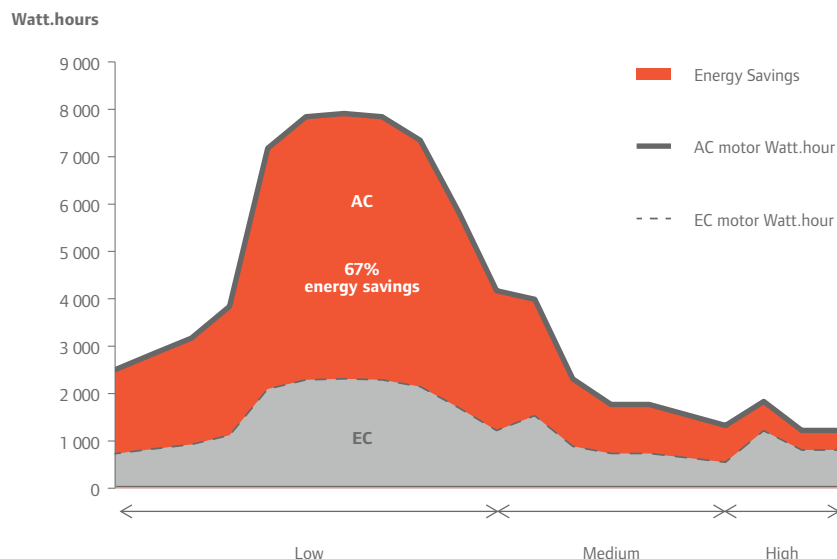
a rapid response when conditions demand it and to

maintain a steady ambient temperature.

The EC fan motor technology makes a significant

contribution to lower the energy consumption of any

building.



Fan speed/airflow requirements

Typical fan motor loads of a Paris office building

## Wall-mounted electronic controls – Standard versions



Control feature	M-3V	T-REM	TB-503	M-2T
ON-OFF switch	X	X	X	X
Manual 3 speed switch	X	X	X	X
Manual/Automatic 3 speed selection			X	
Summer/Winter switch		X	X	X
Room thermostat for fan control (ON-OFF)		X	X	X
Room thermostat for 1 valve control		X	X	X
Simultaneous thermostatic control of the valves and fan		X	X	X
Room thermostat for chilled water valve (SUMMER) and electric heater (WINTER) control		X	X	
Installation of electronic low temperature CUT-OUT thermostat (NTC)			X	
Installation of bimetallic low temperature CUT-OUT thermostat (TMM)		X		

## Wall-mounted electronic controls – IR and MB versions



Control feature	IR Remote Control & Receiver	IR-MB	TODS (Time of Day Scheduling)
ON-OFF switch	X	X	X
Temperature set	X	X	X
Modify the set point*		X	X
Fan speed set (low, medium, high, auto)	X	X	X
Set the operation mode (fan only, cooling, heating)	X	X	X
Time set	X	X	X
24 hours ON/OFF program	X	X	X
Weekly ON/OFF program		X	X
Display and change of the fan coil operation parameters		X	X
Master-slave connection (up to 20 units)		X	X
Master-slave connection (up to 60 units)			X

\* when used as a +/- 3° variation of the set point configured TODS



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