

Industrial and commercial air screen



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Clean design with length of 150cm to 250cm, high heat and air output, intuitive ECmotor control

Thanks to its performance and design, it is suitable for the gates, both in large logistics and production halls, and in smaller shops and warehouses.

Possibility of vertical and horizontal installation.

Silent operation and high barrier effect thanks to thought-out design.

When using a **filter** (accessory), the heat exchanger is **protected against clogging.**

Thanks to the speed regulation, the **optimum** screening and heating power can be selected.

The use of high-quality components makes it possible to provide a warranty for 5 years.

Applicable to gates with hight up to 6,5 m and the width up to 14 m.

Nut M6 for hanging on the ceiling, using threaded rods

Pre-blow setting up to 20° thanks to the **mounting base included in the package.**





The exhaust aluminium lamellas designed by a computer simulation will provide a stable air stream with a high barrier effect.

Quality water exchanger

Connection with mail thread G 1" (max. working conditions 120 °C, 1.6 MPa). Integrated venting valves on the water inlet and outlet

Simple electrical connection thanks to the integrated installation box on the screen body

EC fan

Higher performance and low operating costs Low noise level even at higher power output of the unit, fan speed continuously adjustable 2-10 VDC

Why is the shape of **WIND** screen optimal

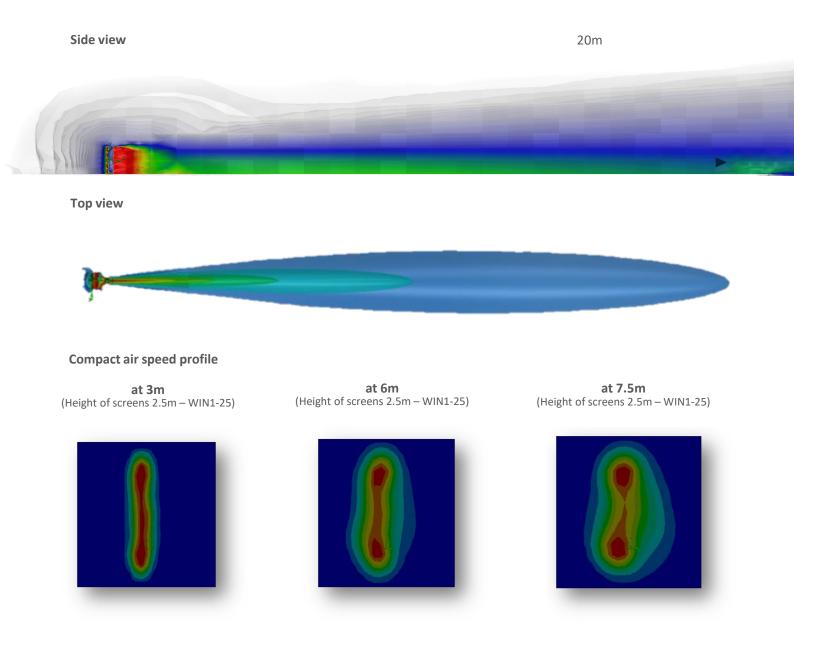
Air throughput Up to 15 000 m3/h

Heating capacity 6-117 kW

Using CFD simulations (Computational Fluid Dynamics – mathematical-physical numerical gas flow solutions) in typified spaces, based on real installations, we have reached the optimal screen geometry.

Horizontal blowing range Up to 8 m

Vertical blowing range Up to 7 m



Frequently Asked Questions & Answers

Is the air curtain able to completely prevent cold air from entering the interior areas?

No. But the correctly designed quality screen is capable of dramatically reducing the penetration of cold air. This will make it very comfortable to stay in the area and will significantly reduce energy consumption. However, there are cases where installation of the screen cannot solve the draft problems.

How is the appropriate air screen selected?

The selection depends on the size of the door/gate opening. The greater the opening, the bigger (more powerful) the air screen has to be. If the air velocity exceeds 7 m/s or 25 km/h in the door/gate opening, the use of the air screen will be ineffective and the door opening must be protected by other means (e.g. by a door or a change of position).

How does the air barrier function as a heating unit?

The air screen belongs to the category of hot-air heating units with strictly specified rules for its selection, location and installation. It is generally assumed that 85% (!) of the heat supplied by the screen remains in the protected area. According to our experience, in a large number of cases the screen itself is capable of heating the space where it is installed. Many heating technicians do not know this, so they ignore this fact and suggest heating without respecting this source.

What is the purpose of the air screen?

The air screen is a heating device designed to protect the door openings against entrance of cold air in the interior of building.

How does the air screen work?

The air screen creates a strong compact air stream; it is possible to imagine it as a heavy curtain located in the door or gate opening when the door/gate is open, and it prevents the cold outside air from penetrating into the building and thus cooling it down.

How will a quality screen become known?

A high-quality air barrier shall be capable of generating a strong, compact air flow, the speed of which decreases as slowly as possible with the distance from the exhaust point. This property is called blowing range. A good-quality air screen should be as quiet as possible so that it does not disturb people in its vicinity with excessive noise.

How to install the air screen?

The air screen is installed either next to or above the door opening. The screen exhaust must always be directed out of the door/gate. The angle between the flow axis and the door plane is called the pre-blow. It is ideal if the air screen allows adjustment even after assembly depending on the actual conditions at the place of installation and the request of the users after the first experience.

How to install the screen WIND?

Door screens can be installed vertically on the floor and horizontally suspended on the ceiling or a wall.

Vertical installations

For the most effective operation of the screen, it is necessary to extend the screen above the door opening

Horizontal installation

For the most effective operation of the screen, it is necessary to make an overlap on both sides of the door; suspension either on threaded bars or on supporting structure anchored to the wall (not supplied by Xvent).

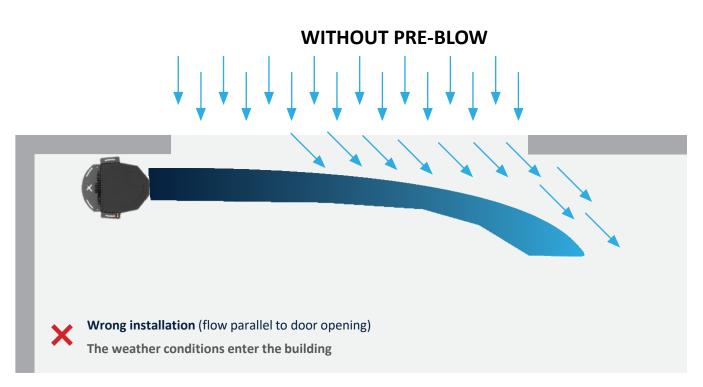
Use anchors with sufficient strength to attach the console to the floor - oval openings max. with M10

For correct operation of the WIND screen, the minimum distance of 0.4 m between the outer shell of the unit and the wall or ceiling must be observed. Failure to observe these distances may result in incorrect function of the unit, damage to the fan or excessive noise of the unit. For horizontal installations on the ceiling, the minimum distance of 0.21 m between the unit fan and the ceiling (suction space) shall be respected.

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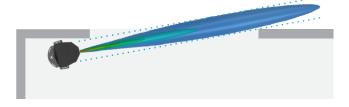
Screen pre-blow setting for the most efficient operation of the screen WIND

The pre-blow of the screen is important for the correct operation of the screen - weather conditions that influence the door opening could disrupt the air stream blowing from the screen and can then "push it towards the building".



Tip for the ceiling installations

Create the door opening connecting lines, and turn the screen accordingly. This applies both to the vertical and horizontal execution.

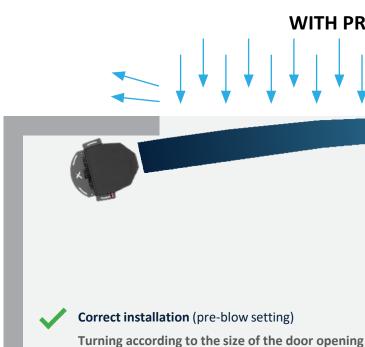


Chained screen mounting

The mounting stand (console) is included in the packaging. The connecting part for chaining must be purchased separately as accessory.

Using the M6 screws, fasten the console to the screens and then chain the screens together using the M8-M10 nuts/screws.



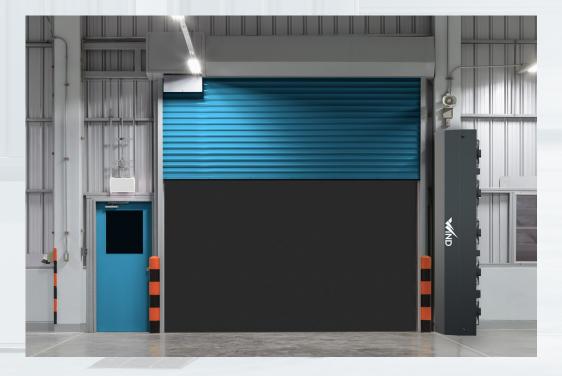


WITH PRE-BLOW



Vertical industrial installation

Commercial areas







Accessories for the WIND unit



Controls for the EC fans

- Continuous adjustment of fan speed with a 0–10V DC signal
- Integrated room thermostat
- Option to connect a control valve with on/off drive
- Independent on/off heating control
- Fan deactivation upon reaching the required temperature at the thermostat

All tested and integrated into a singlecontroller.



Servo-driven valve

Allows to switch water on/off, based on the temperature measured by the room thermostat.

Motor type in the unit	EC
Input voltage	1~230/50-60
Output signal	0–10V
Permissible load	0.02 A
Temperature adj. range	5–35 °C
Temperature sensor	integrated
Cover	IP20
Package dimensions (height x width x depth)	85x85x30mm
Gross weight	0.25 kg
Net weight	0.2 kg
Sales Code	ELEMENTAIR-E-M1

Power supply	230/50-60 V/Hz
Power consumption	2 W
Connection dimension	3/4 "
Maximum medium temperature	120 °C
Max Ambient Temperature	50 °C
Cover - in any position	IP 44
Gross weight	0.3 kg
Net weight	0.3 kg
Package dimensions (height x width x depth)	120 x 120 x 120
Sales Code	'MTA-230-NC V2050DH025'

er - in any tion	IP 44
s weight	0.3 kg
weight	0.3 kg
age dimensior ght x width x h)	ns 120 x 120 x 120
s Code	'MTA-230-NC
	V2050DH025'
Filt	er

Name	Filter
Screen size	WIND-15,20,25
Filtration class	G2 (ISO Coarse)
Gross weight	0.1
Net weight	0.1
Package dimensions (height x width x depth)	300 x 220 x 50
Sales Code	FILTER-350





Magnetic contact B-3

Maximum switching voltage	100 V
Maximum switching current	0.4 A
"Contact closing distance - mounting distance"	38 mm
Contact disconnection distance	42 mm
Contact type	NC (break contact)
Operating temperature range	-10 to +55 °C
Maximum relative humidity	90 %
Dimensions of the magnet cover	50x17x9.8 mm
cable length/wire cross-section	680/ 0.5 mm/mm ²
Package dimensions (height x width x depth)	"100 x 70 x 10 mm
Gross weight	0.07 kg
Net weight	0.056 kg
Sales Code	В3

Pedestal/Hinge

Screen size	WIND15,20,25
Gross weight	3.5 kg
Net weight	2.8 kg
Dimensions (height x width x depth)	60X610x400 mm
Sales Code	WIND-HOLDER

Connecting part

Unit size	WIND15,20,25
Gross weight	2.2 kg
Net weight	1.8 kg
Dimensions (height x width x depth)	120x540x140 mm
Sales Code	WIND-CONNECT



Fan intake filter ATA1-FILTER

Filters on fan intake ATA1-2-

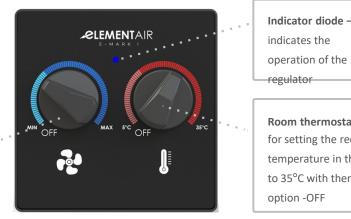
FILTER-G2, ATA1-4-FILTER-G2 are used to collect rougher dust particles, making the room environment cleaner for persons at the place of installation.



EC regulation description for WIND

screen

Dial for continuous adjustment of fan speed To set the required fan speed and switch off the fan -OFF



indicates the operation of the regulator **Room thermostat** for setting the required temperature in the range of 5 to 35°C with thermostat offoption -OFF

The regulator allows smooth speed control of the EC fan for air screens, depending on the heated space temperature. With the possibility of control functionality using a door sensor (door closed / open).

The regulator must be connected as per the recommended electrical diagram and the selected product variant. Electrical wiring may only be carried out only by persons with the appropriate authorisation and in accordance with the applicable local regulations.

Description of control elements of the controller - ELEMENTAIR-E-M1

It enables smooth adjustment of the fan speed in any position from the minimum to the maximum fan speed, as required by the user. It also has the option to use the "OFF" end position to disable the room thermostat. The "OFF" position does not provide disconnection of the air screens from the supply voltage - it must be performed separately on the supply line.

Room thermostat – allows setting of the required temperature from 5 to 35°C. Based on the difference between the ambient

temperature and the required temperature, the fan is switched off or on. It also makes it possible to switch off the function of the spatial thermostat by selecting "OFF" position.

It is signalling the operation of the entire regulator. If the diode is lit, the regulator is on. If the regulator is not on, it is switched off.

Description of the logic of the regulation:

- Winter mode space heating to the required temperature.
 - . The screen runs at the speed set by the user. When the required temperature is reached, the screen is switched off.
 - The actuated valve is open the screen is heating. The valve control is in the switching logic relationship with the screen. The screen is switched off, the valve is closed.
 - Doors (the screened opening door, gate, window, etc.) are:
 - open the screen travels to the maximum speed, ignores the setting of the spatial thermostat, and the valve is set for heating - it is open
 - Closed the screen returns to thermostat control mode, i.e. the screen is returned to the speed set by the user and is controlled by the spatial thermostat according to the ambient temperature and the required temperature.
 - Summer mode no heating by the screen; it is used to separate indoor air from outdoor hot air
 - the screen is switched off using a thermostat
 - The valve is closed.
 - Doors (the screened opening door, gate, window, etc.) are:
 - open the screen is driven to max. speed
 - closed the screen will return to its original state
- The speed regulator is in the OFF position, the unit is switched off.

Recommended accessories for the WIND screen connected to the regulator- ELEMENTAIR-E-M1

V2050DH025 - (2 -way valve, 1" valve) Allows to close/open the heating water supply. MTA-230-NC - (thermoelectric drive for the valve) B3 (door contact) - allows the screen to react to a closed or open door, gate, window, etc.

Possible chaining of WIND air screens

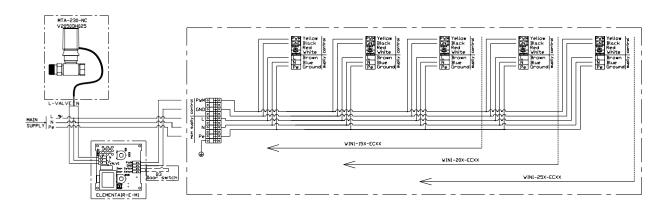
Different combinations of WIND air screen lengths can be connected to one regulator, but with a maximum number of 25 fans. Max. number of connected actuated valves is 8 pcs.

Number of fans in the WIND screen: Screen type	
WIN1-15X-ECXX	
WIN1-20X-ECXX	
WIN1-25X-ECXX	

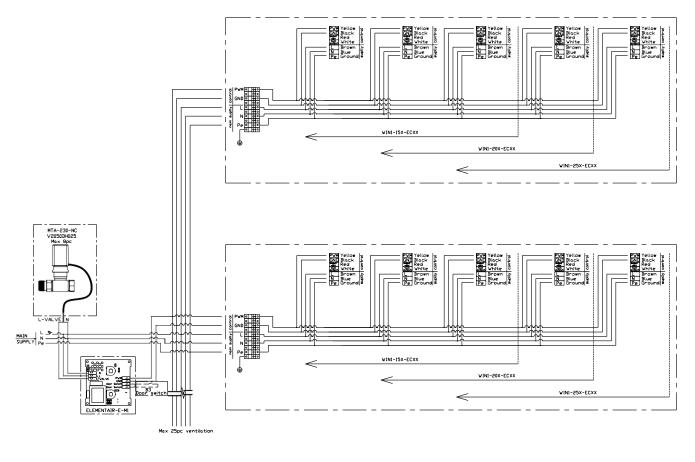
OX-ECXX		
5X-ECXX		

Recommended electrical wiring

Example diagram of regulator wiring with the WIND air screen.



Example diagram of regulator wiring with the WIND air screen chaining.



Number of fans 3 pcs

- 4 pcs
- 5 pcs

Technical parameters of the model series of WIND screens

Heat exchanger parameters:

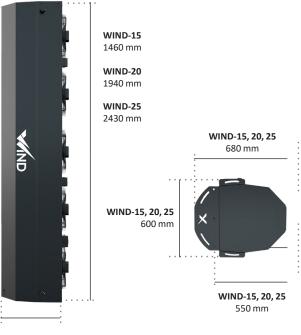
Maximum operating water temperature 120 °C

Maximum service pressure 1.6 MPa

Connecting dimensions for all exchangers are with mail thread G 1".

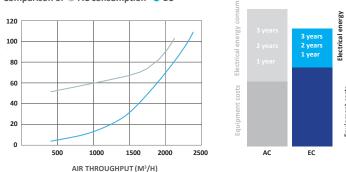
Packagi

ng				
Series	Name	Weight		Package size *
		Gross	Net	
		kg	kg	m
WIND-15	WIN1-15A-ECS0-0A0	47.8	42.8	
	WIN1-15A-ECV2-0A0	59	54	
	WIN1-15B-ECS0-0A0	49.4	44.4	0,6x0,8x1,57
	WIN1-15B-ECV2-0A0	61	56	
WIND-20	WIN1-20A-ECS0-0A0	52.7	47.7	
	WIN1-20A-ECV2-0A0	62.8	57.8	
	WIN1-20B-ECS0-0A0	58.9	53.9	0.6x0,8x2.055
	WIN1-20B-ECV2-0A0	69	64	
WIND-25	WIN1-25A-ECS0-0A0	76.1	71.1	
	WIN1-25A-ECV2-0A0	88.5	83.5	0.69x0.87x0.35
	WIN1-25B-ECS0-0A0	83.6	78.6	0.057.010770.05
	WIN1-25B-ECV2-0A0	96	91	





Comparison of
AC consumption
EC



Technical data

WIND air screen		WIND-15				WIND-20				WIND-25			
		-				WIND-20				WIND-25			
	-	EC											
Air throughput	m3/h	7750	6750	9000	7800	10350	9000	12000	10400	12900	11250	15000	13000
Heat output range	kW	-	Jun-63	-	Aug-69	-	Aug-86		Nov-94	-	10 - 107		13 - 117
Number of exchanger rows	-	-	2	-	2	-	2	-	2	-	2	-	2
Heat exchanger parameters		Maximum op	perating water t	emperature 120)°C; maximum o	perating pressur	e 1.6 MPa; pipe	connection dime	ension G 1"				
Maximum horizontal blowing range*	m	7	6.5	8	7	7	6.5	8	7	7	6.5	8	7
Maximum vertical blowing range*	m	6	6	7	6	6	6	7	6	6	6	7	6
Noise level **	dB(A)	49.9	49	60.9	58.8	52	51	62.7	60.6	53.2	52.3	63.7	61.7
Unit weight***	kg	42.8	54	44.4	56	47.7	57.8	53.9	64	71.1	83.5	78.6	91
Volume of water in the exchanger	dm3	-	3.4	-	3.4	-	4.6	-	4.6	-	5.7	-	5.7
Unit power supply	V/Hz	1 ~ 230/50-	60	1 ~ 230/50-	60	1~230/50-6	0	1~230/50-6	0	1~230/50-6	0	1~230/50-6	0
Motor power	w	317	337	511	517	423	450	687	708	528	562	822	853
Motor current	A	2.14	2.24	3.37	3.3	2.85	2.99	4.53	4.52	3.57	3.73	5.42	5.45
Speed	rpm	1370	1360	1750	1650	1370	1360	1750	1670	1370	1360	1750	1610
Cover	IP	54		54		54		54		54		54	
Sales Code	-	WIN1- 15A- ECS0-0A0	WIN1- 15A- ECV2-0A0	WIN1- 15B- ECS0-0A0	WIN1-15B- ECV2-0A0	WIN1-20A- ECS0-0A0	WIN1-20A- ECV2-0A0	WIN1-20B- ECS0-0A0	WIN1- 20B- ECV2-0A0	WIN1-25A- ECS0-0A0	WIN1- 25A- ECV2-0A0	WIN1-25B- ECS0-0A0	WIN1-25E ECV2-0A0

N

* Maximum range of air flow at 3m/s air speed

** Sound pressure level in 3m, Q=2

*** unit weight, no water

WIN1-15A-ECS0-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	level
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	7750	2.14/230/50-60	317	39.9	57.7	63.9	65.4	67.1	63.9	57.4	50.7	71.7	49.9
II	4700	0.62/230/50-60	77	36.9	47.3	52.7	55.5	54.0	50.6	43.1	34.6	59.9	38.2
I	2000	0.21/230/50-60	10	34.4	45.1	45.3	49.5	44.3	41.8	32.6	27.5	53.1	31.3

 \ast The specified air flow rates correspond to the maximum, mean and minimum flow rates $\ast\ast$ Sound pressure level in 3m, Q=2

WIN1-15A-ECV2-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	level
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	6750	2.24/230/50-60	337	37.1	57.3	62.9	64.3	65.8	63.7	57.5	49.8	70.8	49.0
II	3950	0.63/230/50-60	86	35.3	43.5	52.2	53.8	53.7	50.4	42.4	33.0	59.0	37.2
I	1300	0.22/230/50-60	10	22.0	36.8	42.0	45.7	40.5	35.6	26.2	22.3	48.7	26.9

 \ast The specified air flow rates correspond to the maximum, mean and minimum flow rates $\ast\ast$ Sound pressure level in 3m, Q=2

WIN1-15B-ECS0-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	level
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	9000	3.37/230/50-60	511	44.6	65.7	74.9	76.6	78.0	75.4	68.5	59.3	82.7	60.9
II	5500	1.22/230/50-60	178	37.7	57.4	66.6	65.8	67.4	64.5	56.1	45.6	72.5	50.7
I	2350	0.24/230/50-60	18	17.1	35.0	48.8	42.7	40.8	33.5	24.3	19.8	50.5	28.7

* The specified air flow rates correspond to the maximum, mean and minimum flow rates ** Sound pressure level in 3m, Q=2

WIN1-15B-ECV2-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	level
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	7800	3.30/230/50-60	517	43.2	65.0	74.0	74.3	75.2	72.9	66.3	56.8	80.5	58.8
II	5200	1.31/230/50-60	205	39.7	57.6	65.9	64.9	66.4	63.8	55.4	44.5	71.7	49.9
I	1950	0.24/230/50-60	19	16.5	33.1	55.9	39.7	36.8	30.2	24.5	20.6	56.1	34.3

* The specified air flow rates correspond to the maximum, mean and minimum flow rates ** Sound pressure level in 3m, Q=2

WIND 15 - EXECUTION EC

WIND 15 – EXECUTION EC

WIND 15 – EXECUTION EC

WIND 15 – EXECUTION EC

WIN1-20A-ECS0-0A0

WIND 20 - EXECUTION EC

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	level
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	10350	2.85/230/50-60	423	42.5	60.0	66.2	67.6	69.2	65.9	59.4	52.4	73.8	52.0
II	6250	0.83/230/50-60	102	39.5	49.7	54.9	57.6	56.1	52.6	45.1	36.3	62.0	40.3
I	2650	0.28/230/50-60	13	36.9	47.5	47.6	51.7	46.4	43.8	34.5	29.2	55.2	33.4

* The specified air flow rates correspond to the maximum, mean and minimum flow rates

** Sound pressure level in 3m, Q=2

WIN1-20A-ECV2-0A0

WIND 20 - EXECUTION EC

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	evel
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	9000	2.99/230/50-60	450	39.5	59.5	65.1	66.4	67.8	65.6	59.3	51.4	72.8	51.0
II	5250	0.84/230/50-60	115	37.8	45.8	54.4	55.9	55.7	52.3	44.2	34.6	61.0	39.2
I	1700	0.29/230/50-60	14	24.4	39.1	44.1	47.8	42.5	37.6	28.1	23.9	50.7	28.9

* The specified air flow rates correspond to the maximum, mean and minimum flow rates

** Sound pressure level in 3m, Q=2

WIN1-20B-ECS0-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in free	quency ban	ds (dB)					Noise	evel
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	12000	4.53/230/50-60	687	46.2	68.3	76.6	78.4	80.1	77.4	70.5	61.6	84.6	62.7
II	7300	1.59/230/50-60	232	39.0	59.4	68.0	67.9	69.5	66.6	58.5	48.2	74.4	52.5
I	4450	0.31/230/50-60	23	19.6	38.3	61.0	44.1	42.9	35.8	27.9	24.6	61.2	39.3

* The specified air flow rates correspond to the maximum, mean and minimum flow rates

** Sound pressure level in 3m, Q=2

WIN1-20B-ECV2-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	evel
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	10400	4.52/230/50-60	708	45.1	66.4	76.1	76.1	77.3	75.1	68.4	59.1	82.5	60.6
II	6900	1.74/230/50-60	272	41.5	58.6	67.8	66.9	68.3	65.9	57.6	47.2	73.6	51.7
I	2600	0.31/230/50-60	25	22.6	37.2	57.4	44.0	42.0	35.9	29.5	26.3	57.8	35.9

* The specified air flow rates correspond to the maximum, mean and minimum flow rates

** Sound pressure level in 3m, Q=2

WIND 20 - EXECUTION EC

WIND 20 – EXECUTION EC

WIN1-25A-ECS0-0A0

Fa	in speed *	Air throughput	Unit current	Power	Acoustic	power in free	quency ban	ds (dB)					Noise I	evel
				consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
		m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
П		12900	3.57/230/50-60	528	43.9	61.4	67.5	68.8	70.4	67.1	60.5	53.4	75.0	53.2
П		7800	1.03/230/50-60	128	40.9	51.0	56.2	58.9	57.4	53.8	46.2	37.3	63.2	41.5
I		3350	0.35/230/50-60	16	38.4	48.8	48.9	52.9	47.6	45.0	35.6	30.2	56.4	34.6

* The specified air flow rates correspond to the maximum, mean and minimum flow rates ** Sound pressure level in 3m, Q=2

WIN1-25A-ECV2-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in free	quency ban	ds (dB)					Noise	level
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	11250	3.73/230/50-60	562	41.1	61.0	66.5	67.8	69.2	66.9	60.5	52.5	74.1	52.3
II	6550	1.05/230/50-60	144	39.3	47.2	55.8	57.3	57.0	53.6	45.4	35.7	62.3	40.5
I	2150	0.37/230/50-60	17	26.0	40.5	45.5	49.1	43.8	38.8	29.3	25.0	52.0	30.2

* The specified air flow rates correspond to the maximum, mean and minimum flow rates ** Sound pressure level in 3m, Q=2

WIN1-25B-ECS0-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in free	quency ban	ds (dB)					Noise	evel
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
Ш	15000	5.42/230/50-60	822	47.7	69.5	78.2	79.7	81.2	78.3	71.4	62.3	85.8	63.7
II	9100	1.97/230/50-60	287	40.5	61.2	69.7	69.2	70.5	67.6	59.5	49.0	75.7	53.6
I	5550	0.37/230/50-60	28	26.7	39.8	62.0	47.0	44.6	38.1	32.3	28.4	62.3	40.1

 * The specified air flow rates correspond to the maximum, mean and minimum flow rates ** Sound pressure level in 3m, Q=2

WIN1-25B-ECV2-0A0

Fan speed *	Air throughput	Unit current	Power	Acoustic	power in fre	quency ban	ds (dB)					Noise	level
			consumpt ion of the unit	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LwA	LPA*
	m3/h	A/230V/Hz	w	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
ш	13000	5.45/230/50-60	853	47.3	68.3	77.5	77.5	78.6	76.2	69.4	59.8	83.9	61.7
II	8650	2.24/230/50-60	351	42.6	61.3	69.3	68.4	69.5	66.9	58.6	47.7	75.0	52.8
I	3250	0.38/230/50-60	31	33.3	42.2	61.4	47.1	45.1	41.2	35.5	29.2	61.8	39.7

* The specified air flow rates correspond to the maximum, mean and minimum flow rates ** Sound pressure level in 3m, Q=2

WIND 25 - EXECUTION EC

Water heater parameters

WIN1-15A-ECV2-0A0

		90/70									70/50							50/30			
Inlet air temperature	Airflow	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water
°C	m3/h	kW	°C	m3/h	kPa																
0	6750	63.4	28.8	2.79	33	55.4	24.9	2.43	26	47.2	20.9	2.07	20	38.9	17	1.69	15	30.3	13.1	1.32	10
	3950	44.6	35.4	1.97	17	39.1	30.5	1.72	14	33.5	25.8	1.47	11	27.7	21	1.21	8	21.8	16.2	0.94	5
	1300	20.5	49.6	0.9	4	18.1	43	0.8	4	15.7	36.4	0.69	3	13.1	29.8	0.57	2	10.4	23.2	0.45	1
5	6750	58.9	32.1	2.59	29	50.9	28.1	2.24	23	42.7	24.2	1.87	17	34.4	20.2	1.5	12	25.9	16.3	1.12	7
	3950	41.5	38.2	1.83	15	36	33.4	1.58	12	30.4	28.6	1.33	9	24.6	23.8	1.07	6	18.6	19	0.81	4
	1300	19.1	51.5	0.84	4	16.7	44.9	0.73	3	14.3	38.3	0.62	2	11.7	31.7	0.51	2	8.98	25.1	0.39	1
10	6750	54.5	35.3	2.4	25	46.5	31.3	2.04	19	38.4	27.4	1.68	14	30	23.4	1.31	9	21.5	19.5	0.93	5
	3950	35.4	41	1.69	13	32.9	36.2	1.45	10	27.3	31.4	1.19	8	21.5	26.6	0.94	5	15.5	21.8	0.67	3
	1300	17.7	53.5	0.78	3	15.3	46.8	0.67	3	12.9	40.3	0.56	2	10.3	33.6	0.45	1	7.55	27	0.33	1
15	6750	50.1	38.5	2.21	22	42.1	34.5	1.85	16	34	30.6	1.49	11	25.7	26.6	1.12	7	17.1	22.6	0.74	3
	3950	35.4	43.9	1.56	11	29.9	39	1.31	9	24.2	34.2	1.06	6	18.4	29.4	0.8	4	12.4	24.5	0.54	2
	1300	16.4	55.4	0.72	3	14	48.8	0.61	2	11.5	42.1	0.5	2	8.85	35.5	0.39	1	6.09	28.8	0.26	1

WIN1-15B-ECV2-0A0

		90/70				80/60				70/50				60/40				50/30			
Inlet air temperature	Airflow	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water
°C	m3/h	kW	°C	m3/h	kPa																
0	7800	69.3	27.2	3.05	37	60.5	23.4	2.66	30	51.6	19.7	2.26	24	42.4	16	1.85	17	33	12.3	1.43	13
	5200	53.6	32	2.36	24	46.9	27.6	2.06	20	40.1	23.2	1.75	15	33.1	18.9	1.44	13	25.9	14.6	1.12	10
	1950	27	44.6	1.19	8	23.8	38.6	1.04	8	20.5	32.6	0.9	6	17.1	26.7	0.75	6	13.6	20.7	0.59	4
5	7800	64.4	30.5	2.84	32	55.6	26.8	2.44	27	46.7	23	2.04	20	37.5	19.3	1.64	14	28.2	15.6	1.22	10
	5200	49.8	35	2.19	21	43.1	30.6	1.89	17	36.3	26.3	1.59	13	29.3	21.9	1.28	10	22.1	17.6	0.96	7
	1950	25.1	46.9	1.11	9	21.9	40.9	0.96	7	18.7	34.9	0.82	5	15.2	28.9	0.66	5	11.6	22.9	0.51	3
10	7800	59.6	33.9	2.62	29	50.8	30.1	2.23	23	41.9	26.4	1.83	16	32.7	22.6	1.41	12	23.3	18.9	1.01	8
	5200	46.1	38.1	2.03	19	39.4	33.7	1.73	14	32.6	29.3	1.43	12	25.6	24.9	1.12	9	18.4	20.6	0.8	5
	1950	23.3	49.1	1.03	7	20.1	43.1	0.88	6	16.8	37.1	0.74	6	13.4	31.1	0.58	4	9.73	25.1	0.42	4
15	7800	54.8	37.2	2.41	25	46	33.4	2.02	19	37.1	29.7	1.62	13	28	25.9	1.22	9	18.5	22.1	0.8	5
	5200	45.4	41.1	1.87	18	35.8	36.7	1.57	12	29	32.3	1.27	10	21.9	27.9	0.96	7	14.6	23.5	0.64	5
	1950	21.5	51.4	0.95	6	18.3	45.3	0.8	5	15	39.3	0.66	5	11.5	33.3	0.5	3	7.84	27.5	0.34	3



WIND 15 – EXECUTION EC

WIND 15 – EXECUTION EC

Water heater parameters

WIN1-20A-ECV2-0A0

		90/70				80/60				70/50				60/40				50/30			
Inlet air temperature	Airflow	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water
°C	m3/h	kW	°C	m3/h	kPa																
0	9000	85.6	29.3	3.77	47	74.9	25.3	3.29	38	64	21.3	2.8	29	52.8	17.4	2.3	22	41.4	13.4	1.8	15
	5250	60	35.9	2.64	25	52.7	31.1	2.31	21	45.2	26.2	1.98	16	37.5	21.4	1.64	12	29.6	16.6	1.28	1.8
	1700	26.3	50.9	1.16	7	23.3	44.2	1.02	7	20.2	37.4	0.89	5	17	30.7	0.74	6	13.6	24.1	0.59	0.6
5	9000	79.3	32.5	3.51	41	68.9	28.5	3.03	33	58	24.5	2.54	26	46.9	20.6	2.04	18	35.4	16.6	1.54	13
	5250	55.8	38.7	2.46	23	48.5	33.9	2.13	18	41	29	1.8	14	33.3	24.2	1.45	11	25.4	19.4	1.1	9
	1700	24.5	52.8	1.08	7	21.6	46	0.95	6	18.4	39.3	0.81	5	15.1	32.6	0.66	5	11.7	25.9	0.51	3
10	9000	73.6	357	3.24	36	63	31.7	2.77	28	52.1	27.7	2.28	21	40.9	23.7	1.78	14	29.5	19.8	1.28	9
	5250	51.7	41.5	2.28	20	44.4	36.6	1.95	16	36.9	31.8	1.62	11	29.2	27	1.27	9	21.2	22.1	0.92	6
	1700	22.9	54.6	1.01	7	19.8	47.9	0.87	5	16.6	41.2	0.73	5	13.3	34.5	0.58	4	9.85	27.7	0.43	4
15	9000	67.7	38.9	2.98	31	57.1	34.9	2.51	25	46.2	30.9	2.02	17	35.1	26.9	1.53	13	23.5	22.9	1.02	7
	5250	47.6	44.3	2.1	17	40.3	39.4	1.77	13	32.8	34.6	1.44	11	25.1	29.7	1.09	8	17	24.8	0.74	6
	1700	21.1	56.5	0.93	6	18.1	49.7	0.79	4	14.9	43	0.65	4	11.5	36.3	0.5	3	7.99	29.4	0.35	3

WIN1-20B-ECV2-0A0

		90/70				80/60				70/50				60/40				50/30				
Inlet air temperature	Airflow	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	
°C	m3/h	kW	°C	m3/h	kPa																	
0	10400	93.6	27.6	4.13	54	81.9	23.8	3.6	45	69.9	20.1	3.06	34	57.6	16.3	2.51	26	45.1	12.6	1.96	17	
	6900	72.1	32.5	3.18	35	63.2	28.1	2.78	28	54.1	23.7	2.37	23	44.8	19.3	1.95	17	35.2	14.9	1.53	13	
	2600	36.3	45.1	1.6	11	32.1	39.1	1.41	10	27.7	33.1	1.21	8	23.1	27.1	1.01	7	18.4	21.1	0.8	5	
5	10400	87.1	30.9	3.84	49	75.3	27.1	3.31	38	63.4	23.4	2.77	29	51.1	19.6	2.23	21	38.6	15.9	1.67	13	
	6900	67	35.5	2.95	30	85.1	31.1	2.55	26	49.1	26.7	2.15	19	39.7	22.3	1.73	13	30.2	17.9	1.31	10	
	2600	33.9	47.4	1.49	11	29.6	41.3	1.3	9	25.2	35.4	1.1	8	20.6	29.4	0.9	6	15.9	23.4	0.69	5	
10	10400	80.6	34.2	3.55	42	68.8	30.5	3.02	33	56.9	26.7	2.49	25	44.6	22.9	1.94	17	32	19.2	1.39	11	
	6900	62.1	38.5	2.74	27	53.2	34.1	2.34	22	44.1	29.7	1.93	16	34.8	25.3	1.52	12	25.1	20.9	1.09	8	
	2600	31.4	49.6	1.38	10	27.1	43.6	1.19	8	22.7	37.6	0.99	7	18.1	31.5	0.79	5	13.3	25.5	0.58	4	
15	10400	74.1	37.5	3.26	36	62.4	33.7	2.74	27	50.5	30	2.21	20	38.2	26.2	1.67	13	25.6	22.4	1.11	9	
	6900	57.1	41.5	2.52	24	48.3	37.1	2.12	18	39.2	32.7	1.71	13	29.8	28.3	1.3	9	20.1	23.8	0.87	6	
	2600	29	51.8	1.28	8	24.7	45.8	1.08	8	20.2	39.8	0.89	5	15.6	33.7	0.68	5	10.7	27.6	0.47	5	



WIND 20 – EXECUTION EC

WIND 20 – EXECUTION EC

Water heater parameters

WIN1-25A-ECV2-0A0

		90/70				80/60				70/50				60/40				50/30			
Inlet air temperature	Airflow	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water
°C	m3/h	kW	°C	m3/h	kPa																
0	11250	107	29.2	4.7	31	93.4	25.2	4.1	25	79.7	21.2	3.49	20	65.6	17.2	2.86	15	51.3	13.3	2.23	11
	6550	74.8	35.9	3.29	17	65.6	31	2.88	14	56.2	26.1	2.46	12	46.5	21.3	2.03	9	36.6	16.5	1.59	6
	2150	33.1	50.7	1.46	6	29.3	43.9	1.29	5	25.4	37.2	1.11	5	21.3	30.5	0.93	4	17	23.8	0.74	4
5	11250	99.3	32.5	4.37	28	85.9	28.4	3.77	23	72.2	24.4	3.16	17	58.1	20.4	2.53	13	43.7	16.5	1.9	8
	6550	69.5	38.7	3.06	15	60.4	33.8	2.65	12	51	28.9	2.23	10	41.3	24.1	1.8	7	31.3	19.2	1.36	6
	2150	30.9	52.6	1.36	5	27.1	45.8	1.19	4	23.1	39.1	1.01	4	19	32.4	0.83	3	14.6	25.6	0.63	3
10	11250	91.8	35.7	4.05	24	78.4	31.6	3.45	19	64.7	27.6	2.83	14	50.8	23.6	2.21	10	36.3	19.6	1.58	6
	6550	64.4	41.5	2.84	13	55.3	36.6	2.43	12	45.8	31.7	2.01	8	36.1	26.8	1.58	6	26.1	22	1.13	4
	2150	28.7	54.4	1.27	5	24.9	47.7	1.09	5	20.9	41	0.91	4	16.7	34.2	0.73	4	12.3	27.5	0.53	2
15	11250	84.4	38.8	3.72	22	71.1	34.8	3.12	16	57.4	30.8	2.51	13	43.4	26.8	1.89	8	28.9	22.7	1.25	5
	6550	59.3	44.2	2.61	13	50.1	39.3	2.2	10	40.7	34.5	1.78	7	31	29.6	1.35	6	20.9	24.7	0.91	4
	2150	26.5	56.3	1.17	4	22.6	49.5	0.99	4	18.7	42.8	0.82	3	14.4	36	0.63	3	9.93	29.2	0.43	4

WIN1-25B-ECV2-0A0

		90/70				80/60				70/50				60/40				50/30			
Inlet air temperature	Airflow	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water	Heating capacity of the heater	Exhaust air temperatur e	Water flow	Pressure loss in water
°C	m3/h	kW	°C	m3/h	kPa																
0	13000	117	27.5	5.15	37	102	23.7	4.48	30	87	20	3.81	24	71.6	16.2	3.12	17	55.8	12.5	2.42	13
	8650	90.1	32.4	3.97	24	78.9	28	3.47	20	67.5	23.6	2.95	15	55.7	19.2	2.43	12	43.6	14.8	1.89	8
	3250	45.3	45.1	2	8	40	39	1.76	6	34.5	33	1.51	7	28.7	27	1.25	5	22.8	21	0.99	4
5	13000	109	30.9	4.79	33	93.9	27.1	4.12	26	78.8	23.3	3.45	20	63.4	19.5	2.76	14	47.6	15.8	2.07	9
	8650	83.8	35.4	3.69	21	72.6	31	3.19	17	61.1	26.6	2.68	13	49.4	22.2	2.15	10	37.3	17.8	1.62	6
	3250	42.3	47.3	1.86	7	36.9	41.3	1.62	5	31.3	35.2	1.37	6	25.6	29.2	1.12	5	19.6	23.2	0.85	3
10	13000	100	34.2	4.43	28	85.7	30.4	3.76	23	70.7	26.6	3.1	16	55.3	22.8	2.41	12	39.5	19	1.72	7
	8650	77.6	38.4	3.42	19	66.4	34	2.92	14	54.9	29.6	2.4	12	43.1	25.1	1.88	8	31	20.7	1.35	6
	3250	39.2	49.5	1.73	6	33.8	43.5	1.49	6	28.2	37.4	1.24	5	22.4	31.4	0.98	4	16.4	25.3	0.71	4
15	13000	92.4	37.5	4.07	24	77.7	33.7	3.41	19	62.6	29.9	2.74	13	47.3	26.1	2.06	9	31.4	22.3	1.36	6
	8650	71.4	41.4	3.15	16	60.2	37	2.64	12	48.8	32.5	2.13	9	37	28.1	1.61	6	24.7	23.6	1.07	5
	3250	36.2	51.7	1.59	5	30.8	45.7	1.35	5	25.2	39.6	1.1	5	19.3	33.6	0.84	3	13.2	27.4	0.57	3



WIND 25 – EXECUTION EC

WIND 25 – EXECUTION EC



More information



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