

Intensse



Water heater



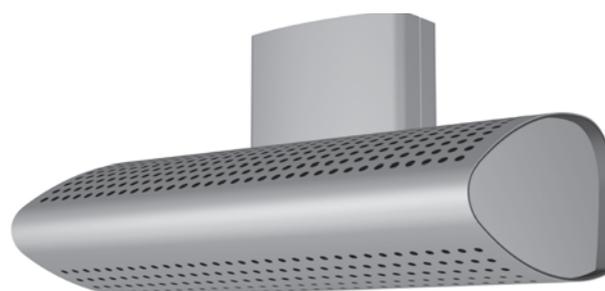
Electric heater



Opening heights of up to 2.8m

Features

- Single capacity line, for openings heights of up to 2.8m
- 1.0m, 1.5m and 2.0m lengths
- Water heater and electric wire heater
- Attractive design
- Control panel with LCD display
- Integrated PID heating control (with integrated antifreeze protection for water version)
- Available in version with germicide fluorescent lamp (UVC rays)
- Fragrance cartridge
- 24 months guarantee



Intensse

Intensse air curtains are designed for the barrier free separation of two areas with differing climatic conditions.

These air curtains are particularly suitable for installation in shopping centres, banks, hotels, restaurants, administrative buildings and so on. The air curtain should be used in an environment free of rough dust, grease, chemical fumes and other impurities.

As standard the Intensse is supplied with four fluorescent tubes (White, Red, Blue and Green) which can individually be positioned within the intake air section to provide additional illumination to public areas.

A Germicidal UVC lamp option is also available where invisible UVC rays kill viruses, moulds and disease carrying micro-organisms in the air. Such an equipped air curtain would be suitable for sterilizing the air in frequented public places such as schools, healthcare facilities, commercial buildings, etc. This option does not include any further fluorescent tubes. The Intensse is available in three metallic colour options, Silver, Champagne or Dark Grey with black edges to emphasize its design and shape. Alternative RAL colours are available at an extra charge.

A range of fragrance cartridges are also available. See accessories section.

Primary Parameters

- The air curtain should be installed indoors in a dry area with ambient temperatures ranging from +5°C up to +35°C with a relative humidity up to 80%.
- The IP rating of the air curtain is IP20.
- All air curtains with electric heaters are fitted with a safety thermostat with automatic reset and an emergency thermostat with a manual reset.
- The warm-water exchangers are designed for a maximum operating temperature of +100°C and a maximum operating pressure of 1.6MPa.

All air curtain projects should be calculated by a HVAC designer.

Intensse



Air curtain type	Door height* [m]	Air capacity [m ³ /h]	Noise** [dB(A)]	Heater power [kW]	Heater voltage /current [V/A]	Fan voltage /current [V/A]	Weight [kg]
VDI-B-10E	2.8	1900	46	9.5	400/14.5	230/1.3	37
VDI-B-15E		2850	47	15	400/22.5	230/2.1	53
VDI-B-20E		3800	48.5	19	400/28.5	230/2.6	66
VDI-B-10V		1850	45.5	14.0***	-	230/1.3	38
VDI-B-15V		2800	46.5	26.6***	-	230/2.1	55
VDI-B-20V		3700	47.5	35.8***	-	230/2.6	67

* Limited distance when air flow speed decreases to 2m/s. Applies to the highest capacity type under optimum conditions.

** Sound pressure measured 3m from the air curtain intake.

*** At the temperature gradient of 82/71 and temperature of intake air equal to +18 °C.

Electric heater parameters

Air curtain type	Air capacity [m ³ /h]	Heater power [kW]	Temperature increase* ΔT [°C]
VDI-B-10E	1900	9.5	15.0
VDI-B-15E	2850	15.0	15.8
VDI-B-20E	3800	19.0	15.0

• At the maximum air flow and maximum heater power

Water exchanger parameters for water temperature gradient of 80/60°C

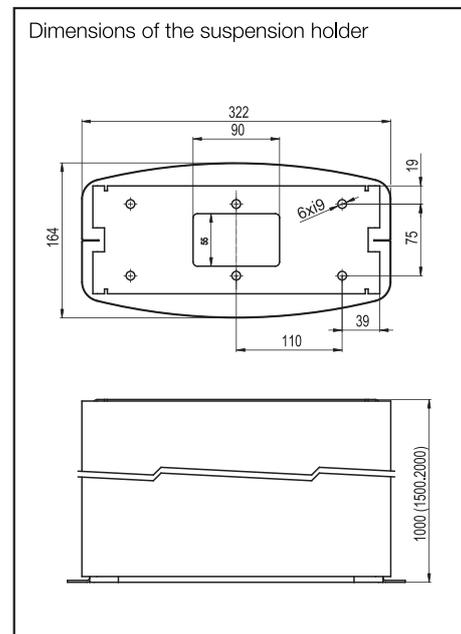
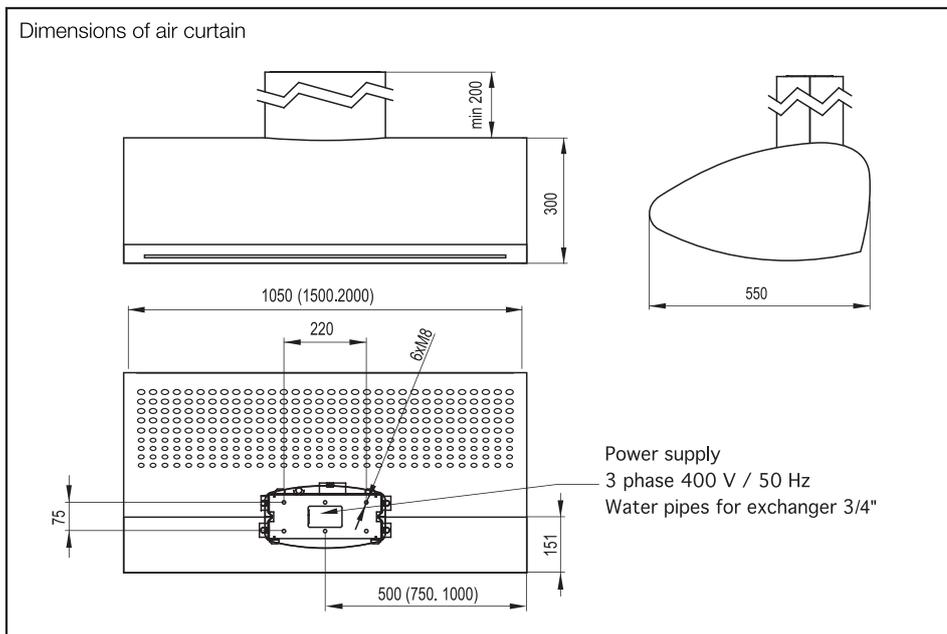
Air curtain type	Air capacity [m ³ /h]	Heater power* [kW]	Outlet temperature [°C]	Water flow [l/s]	Water pressure loss [kPa]
VDI-B-10V	1850	14.20	40.7	0.17	1.57
VDI-B-15V	2800	22.47	41.7	0.27	1.86
VDI-B-20V	3700	29.97	41.9	0.36	1.66

• Temperature of intake air: +18 °C

Water exchanger parameters for water temperature gradient of 82/71°C

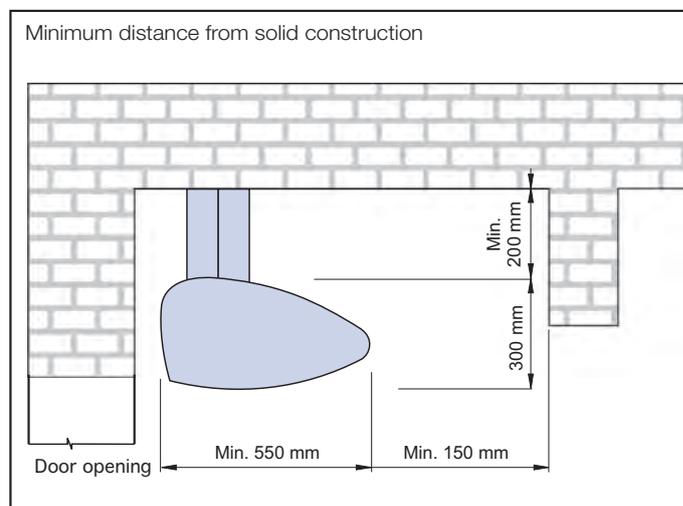
Air curtain type	Air capacity [m ³ /h]	Heater power* [kW]	Outlet temperature [°C]	Water flow [l/s]	Water pressure loss [kPa]
VDI-B-10V	1850	14.0	40	0.30	7.18
VDI-B-15V	2800	26.6	46	0.58	11.13
VDI-B-20V	3700	35.8	47	0.77	8.92

• Temperature of intake air: +18 °C



Installation and assembly

- The air curtain shall be installed in a horizontal position only.
- The air curtain shall be located as close as possible to the top edge of the doorway, see picture.
- To ensure a correct function it's recommended that the air curtain overlaps the doorway by 100mm on both sides.
- Correct operation of the air curtain requires that specified distances from the surrounding objects are observed, see picture.
- The heating water supply line and power supply to the air curtain are routed through a design holder.
- Design suspension holder (see Accessories) is used for installing the air curtain. The holder is a required item and has to be ordered separately.



Intensse

Control

Intensse air curtains are controlled by a wired remote control.



	Type of controller	Manual/Automatic
	Regulation of air output	3 speeds
	Regulation of electric heater	3 levels
	Regulation of water heater	3 levels
	Possibility of connecting a door contact	YES
	Connection of a special thermostat	YES
	Connection of a timer	YES
	External temperature sensor	YES
 CLEAN	Air curtain cleaning interval indication based on operating hours	YES
 DOOR	Door switch state indication	YES
 ALARM	Electric heater overheating indication	YES
	Water heater freezing indication	
	Aftercooling electric heater	30s
	Chaining air curtains	Up to 6
	Light indication of selected function	YES
	Controller connection to air curtain	Low-voltage cable (12V) with max. length of 50m

When in manual mode the controller will control the fan speeds and electric/water heating options. In automatic mode the air curtain uses its external temperature sensor and integrated air intake sensor to automatically control both heat and fans depending on external/internal conditions

PID regulation is used for both electric and water heaters to ensure maximum comfort.

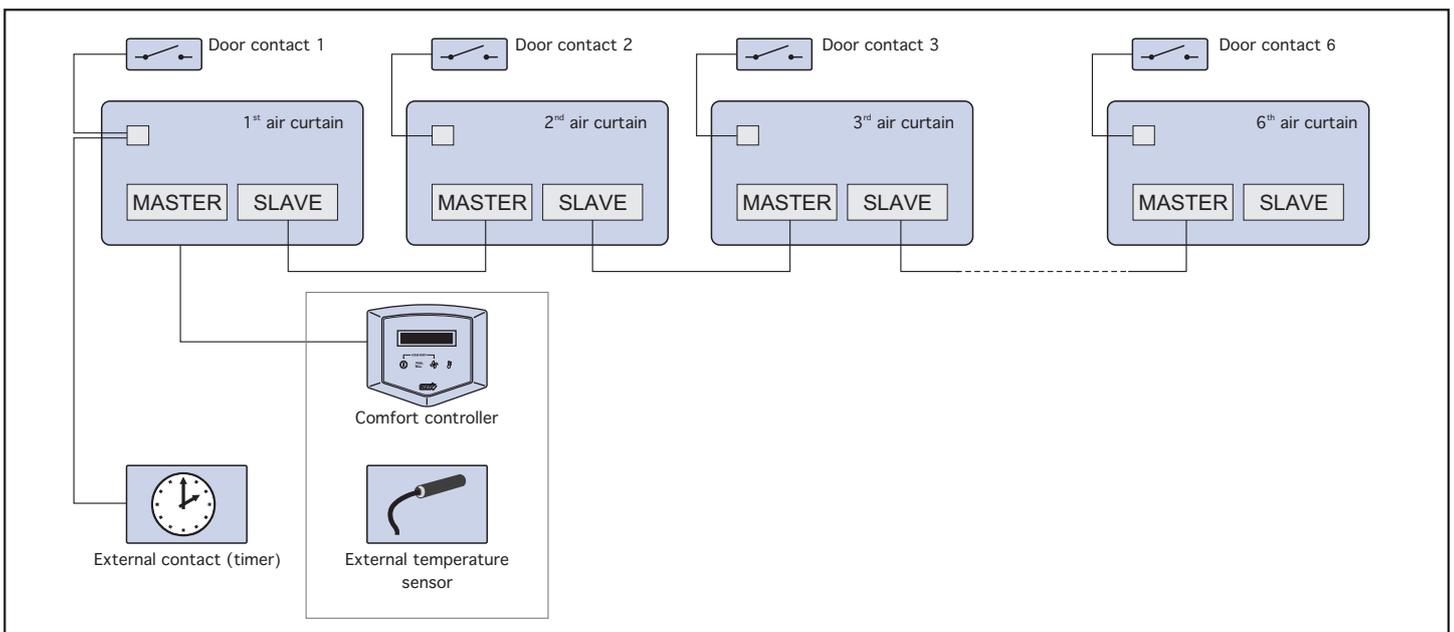
All water options come complete with integral anti-freeze protection which activates once the temperature of the air curtain outlet falls below +5°C. This remains active even when the air curtain is switched off.

The control allows for air curtain chaining. This means that a single controller may be used for controlling up to six air curtains

at the same time in the same mode. A door contact can be connected to each air curtain.

One of the air curtains is fitted with a controller and acts as a master unit. Other air curtains are connected to the master unit through a communication cable and operate as slave units. The same cable type is used both for connecting the air curtain with a controller and for interconnecting the individual air curtains. Optional external switching element (timer) can be connected to the master air curtain in addition to the door contact. The antifreeze protection acts upon the air curtain having reported a failure only.

The principle of chained air curtains is illustrated by the following figure.



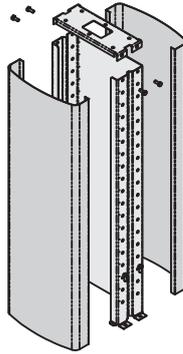
The air curtain may also be used for lighting the entrance area. A fluorescent lamp is located at the air curtain outlet which is lit as soon as the air curtain is activated.

Accessories

These accessories should be ordered to make the air curtain operational.

Suspension holder

Support columns available in 3 colour options and 3 lengths (1000mm, 1500mm and 2000mm).



VCC-DR - 10 - 0

- 0 - silver metallic
- 1 - champagne metallic
- 2 - dark grey metallic
- 9 - other colours according to RAL (state specific colour number extra to the code)

- 10 - length 1000 mm
- 15 - length 1500 mm
- 20 - length 2000 mm

VCC-DR - suspension holder for the INTENSSE Design, STYLESE Design and COMTESSE Design air curtains

Optional accessories

Side panel edges

Coloured side panels are available. If colour of edge isn't specified the default colour is black.



VDI-BM-0

- 0 - black (standard)
- 9 - other colours according to RAL (state specific colour number extra to the code)

VDI-BM - side panel edges for the INTENSSE Design air curtains

Cartridge with fragrance

SH-TM-848



VD-FL-ALP

- ALP - Alpine fragrance
- FLV - Floral fragrance
- GRE - Green fragrance
- CIT - Citrus fragrance
- MOR - Morning fragrance

FL - fragrance

VD - STYLESE air curtain

Coloured fluorescent lamps

Coloured fluorescent lamp for sub-lighting the intake part of air curtain.



VDI-10-LT-R

- R - red light
- G - green light
- B - blue light

LT - light

- 10 - length 1000 mm
- 15 - length 1500 mm
- 20 - length 2000 mm

VDI - STYLESE air curtain

Connection cable

The communication cable is designed for connecting the DM controller to the air curtain or for interconnecting chained air curtains.

The standard length of the cable delivered with the air curtain is 5m. Other lengths are available based on the coding key provided below.



KABEL-05M

- 03, 05, 08, 10, 15, 20, 30, 40 - cable length in m (unless otherwise stated in the order, the cable is a standard 5m) Maximum cable length is 50m.

KABEL - connection cable

Door switch for air curtains fitted with the DM and DA controls

DK1

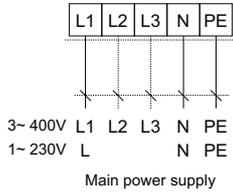


Timer with a weekly program

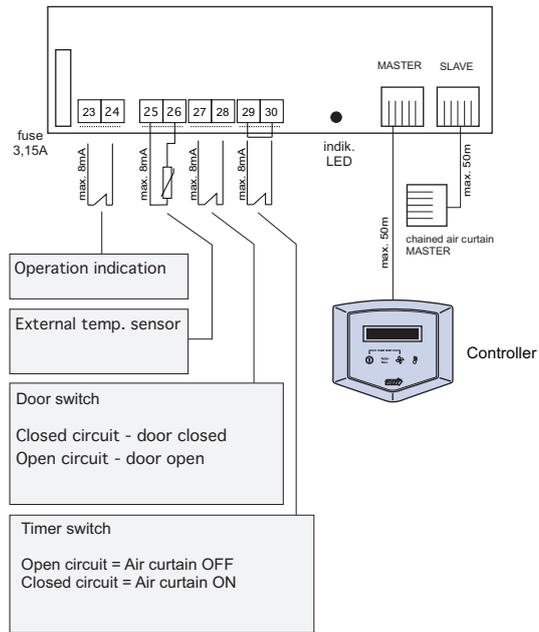
SH-TM-848



Power supply



Comfort model

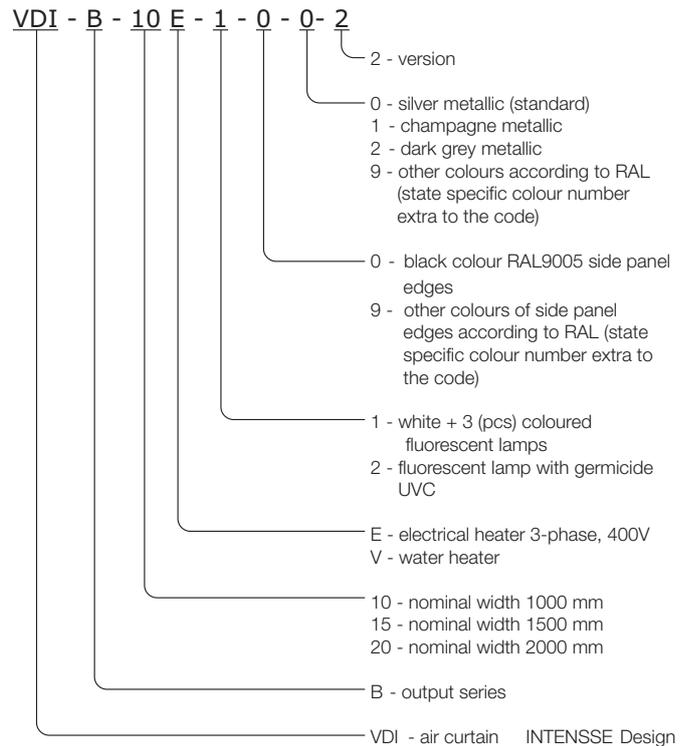


Wiring diagrams

The recommended cross-section of the main power supply cable is stated in the Instruction Manual.

All wiring diagrams provided in the technical catalog are indicative only. When assembling the product, strictly observe the nameplate ratings as well as directions and diagrams affixed directly to the product or enclosed to the product.

Key to coding



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JS has a policy of continually improving products and performance. Actual specifications might vary from those shown.

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