



# ***CORONA TREATMENT & WEB CLEANING***

***FOR NARROW WEB***

**VETAPHONE**

# **INVENTIONS THAT LAST**

## **PIONEERS IN SURFACE ADHESION**

INTERACTIVE BROCHURE



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# ***CORONA TREATMENT***

## ***FOR NARROW WEB APPLICATIONS***

Corona surface treatment is essential for quality label printing on non-absorbent substrates. In today's market where 'filmic' labels are in high demand, it is essential to secure a good adhesive bond between the liquid (ink) and the substrate (film/foil). When the surface energy or tension of the liquid is higher than that of the substrate, bad adhesion occurs causing ink on the finished product to smudge.

When batches of incoming substrates have a low dyne level, or if dyne levels have decreased due to heat or humidity during transportation or storage, the adhesive bond is compromised. This prevents label converters from running their narrow web presses at full speed and as a result, costs money.

A Vetaphone corona system can also be used to boost already treated materials to create higher adhesion abilities that are required for certain processes and with new substrates.

The same applies to top-coated materials, which because they use expensive chemicals, are costly to buy. By corona treating on-press, the need for using top-coated materials is often removed.

Our high-performance corona systems are designed not only for our customers in the narrow web printing industry, but for their customers who demand flawless and long-lasting quality for the optimum promotion of their products.



*Corona treatment = perfect adhesion*



*No Corona treatment = low adhesion*

# ***CORONA STATIONS***

## ***FOR NARROW WEB***

Our state-of-the-art corona stations are designed to ensure easy operation and high efficiency.

# FEATURES & BENEFITS

## QUICK-CHANGE ELECTRODE CARTRIDGE

The electrodes are located in a simple to remove quick-change cartridge. This enables easy cleaning and changing of the complete set of electrodes in seconds; reducing maintenance costs and increasing productivity.

## CERAMIC ELECTRODES

Corona stations are equipped with ceramic electrodes for the treatment of electrically conductive and non-conductive films. Our cartridge design allows you to upgrade the system from 4 to 6, or 6 to 8 electrodes if treatment of difficult materials is required.

## ROLLERS

All Vetaphone narrow web stations are fitted with a stainless-steel, easy turning backing roller for a longer working life. The VE1A series is typically delivered with two aluminium guide rollers as standard making it extremely easy to lead the film ensuring a perfect web path.

## DOUBLE END PLATES

To fulfill the increasing demand for precision and quality in the printing process, the VE1A station has been designed with double end plates making the station more robust, ensuring perfect alignment with a more uniform surface adhesion on the end product.

## HIGH HUMIDITY RESISTANCE

Our corona treaters are designed for use in high humidity production environments owing to our use of high-quality insulators and optimum airflow extraction.

## OZONE EXTRACTION

Our corona treaters have ozone extraction from the back. In addition to removing the ozone, the extraction unit has a cooling effect on the ceramic electrodes, giving them prolonged durability and higher power capabilities. All parts of the stations are made from corrosion and ozone-proof materials.

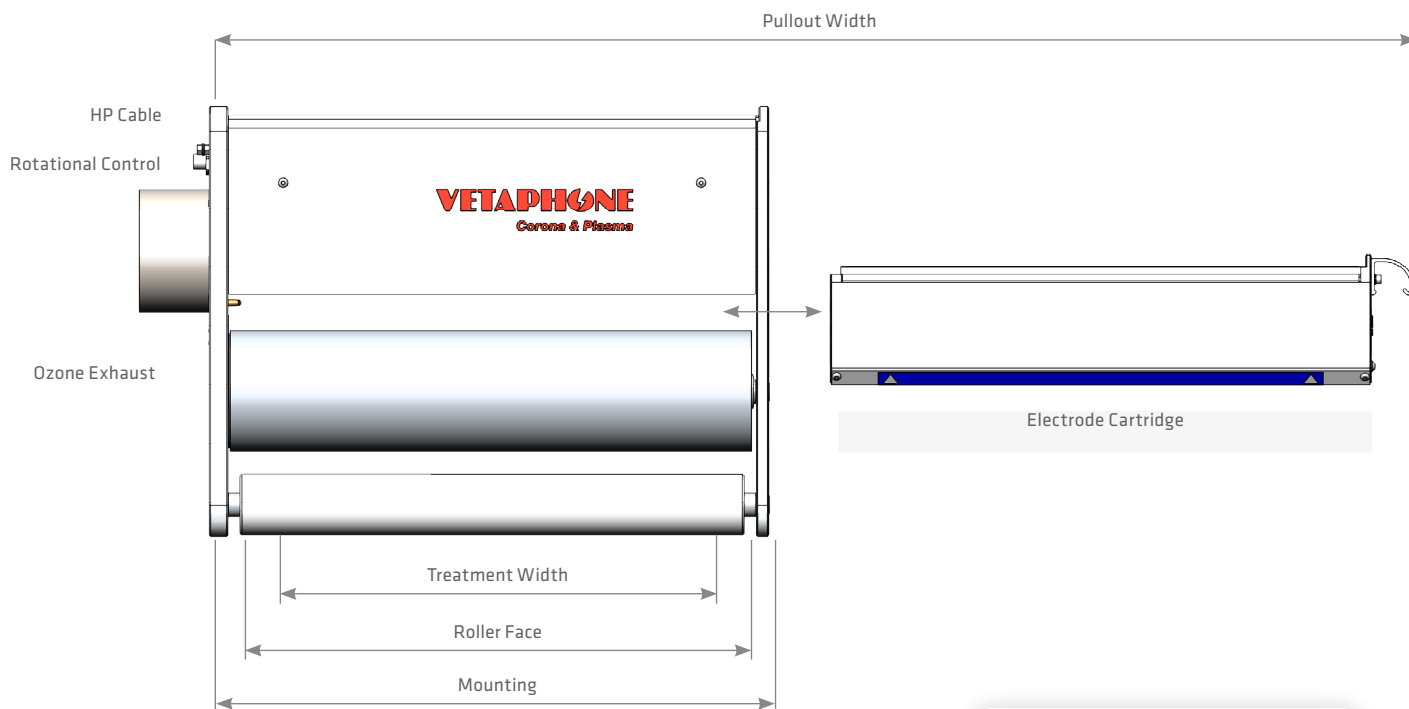
## INTEGRATED SENSOR

Vetaphone corona stations are designed and manufactured with embedded rotation control for the backing roller that detects line speed and adjusts the power output accordingly.

## INTEGRATED AIR FLOW SWITCH

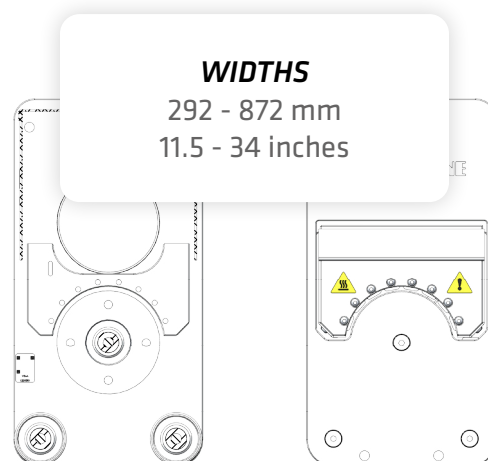
To secure the correct ozone exhaust and cooling of the electrodes the iCorona system is equipped with an airflow sensor. The cooling of the ceramic electrodes ensures improved durability.

# SPECIFICATIONS VE1A-M



## SPECIFICATIONS

WIDTHS	292-872 mm / 11.5 - 34 inches
SPEEDS	1-300 m/min / 3-984 ft/min
SIDES FOR TREATMENT	Single and double
ELECTRODES	2, 4, 6, or 8 ceramic electrodes
ROLLER COVERING	Stainless Steel
ROLLER DIAMETER	ø100 mm / ø4 inches
MOUNTING	Cantilevered or base mounting



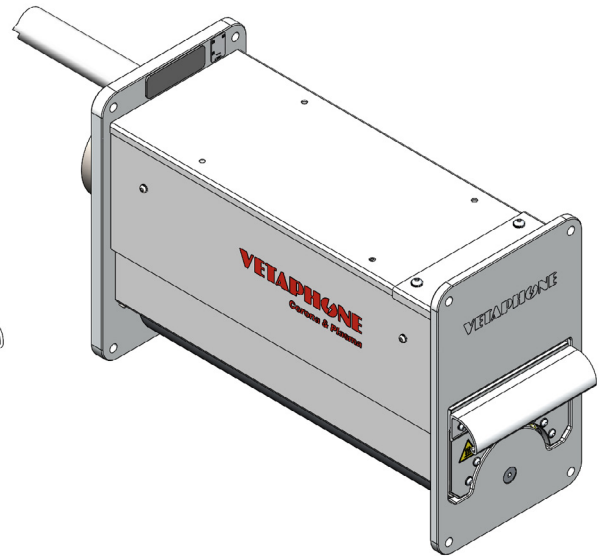
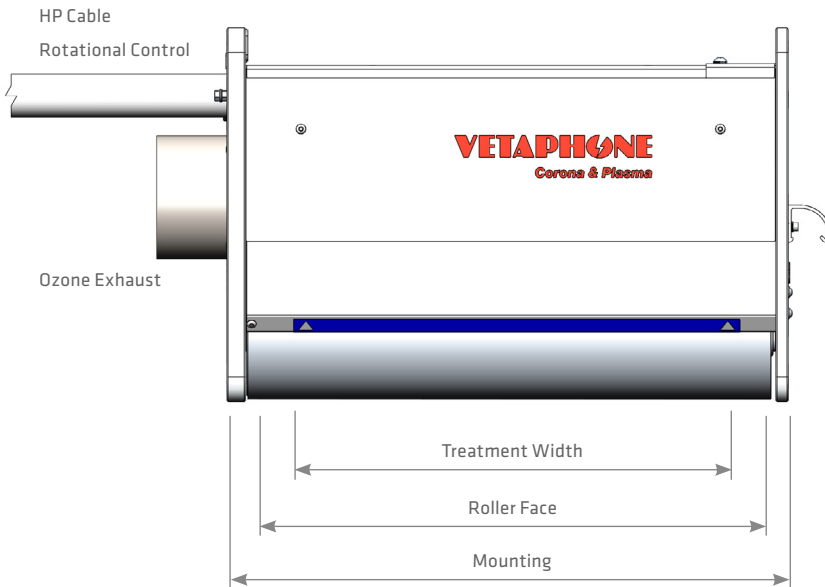
**WIDTHS**  
292 - 872 mm  
11.5 - 34 inches

## TECHNICAL SPECIFICATIONS

STATION	TREATMENT WIDTH	ROLLER WIDTH	MOUNTING WIDTH	PULLOUT WIDTH
VE1A-M 340	292 mm / 11.5"	354 mm / 14"	385 mm / 15"	405 mm / 16"
VE1A-M 410	362 mm / 14"	424 mm / 17"	455 mm / 18"	475 mm / 18.7"
VE1A-M 480	432 mm / 17"	494 mm / 19"	525 mm / 21"	545 mm / 21.5"
VE1A-M 520	472 mm / 18.5"	534 mm / 21"	565 mm / 22"	585 mm / 23"
VE1A-M 620	572 mm / 22.5"	634 mm / 25"	665 mm / 26"	685 mm / 27"
VE1A-M 720	672 mm / 26"	734 mm / 29"	765 mm / 30"	785 mm / 31"
VE1A-M 820*	772 mm / 30"	834 mm / 33"	865 mm / 34"	885 mm / 35"
VE1A-M 920*	872 mm / 34"	934 mm / 37"	965 mm / 38"	985 mm / 38.8"

\*VE1A-M 820 + 920 are only available with 2, 4, or 6 ceramic electrodes.

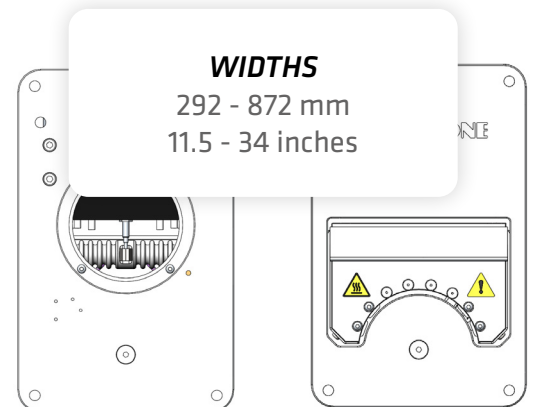
# SPECIFICATIONS VE1A-L



VE1A-L G2 ISO view with Hp-cable

## SPECIFICATIONS

WIDTHS	292-872 mm / 11.5-34inches
SPEEDS	1-300 m/min
SIDES FOR TREATMENT	1
ELECTRODES	Ceramic 2-8 pcs
ROLLER COVERING	Stainless steel
ROLLER DIAMETER	Ø98 mm / 3.85 inches
MOUNTING	Cantilevered or base mounting

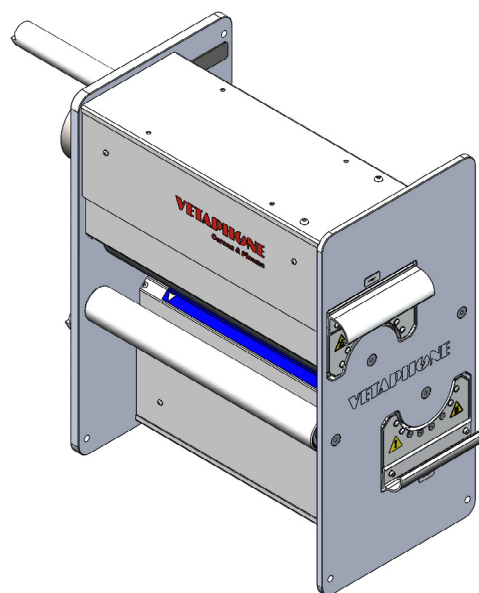
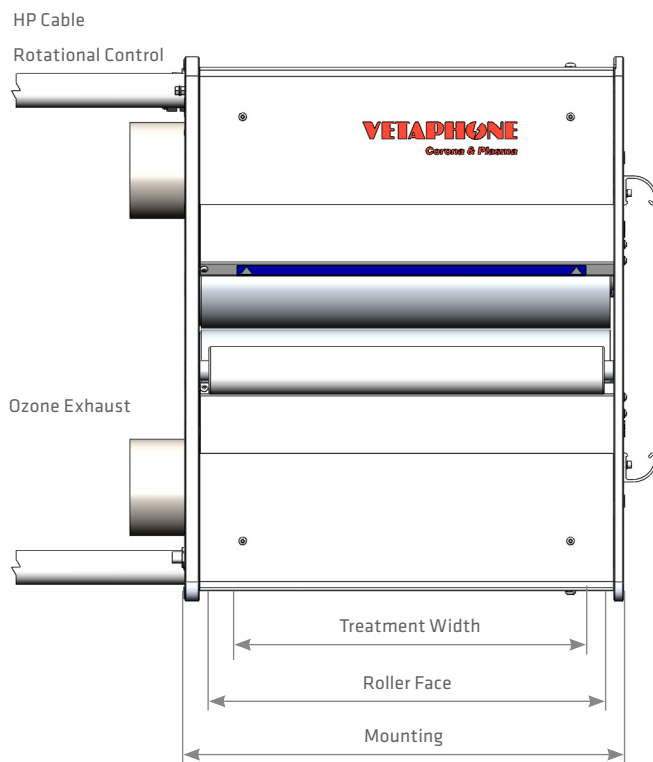


## TECHNICAL SPECIFICATIONS

STATION	TREATMENT WIDTH	ROLLER WIDTH	MOUNTING WIDTH	PULLOUT WIDTH
VE1A-L 340	292 mm / 11.5"	354 mm / 14"	385 mm / 15"	405 mm / 16"
VE1A-L 410	362 mm / 14 "	424 mm / 16.5"	455 mm / 18"	475 mm / 19"
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VE1A-L 620	572 mm / 22.5"	634 mm / 25"	665 mm / 26.5"	685 mm / 27"
VE1A-L 720	672 mm / 26"	734 mm / 29"	765 mm / 30.5"	785 mm / 31"
VE1A-L 820	772 mm / 30"	834 mm / 32.5"	865 mm / 34"	885 mm / 35"
VE1A-L 920	872 mm / 34"	934 mm / 36.5"	965 mm / 38"	985 mm / 39"

\*VE1A-L G2 are only available with 2, 4, or 6 ceramic electrodes.

# SPECIFICATIONS VE2A-M G2



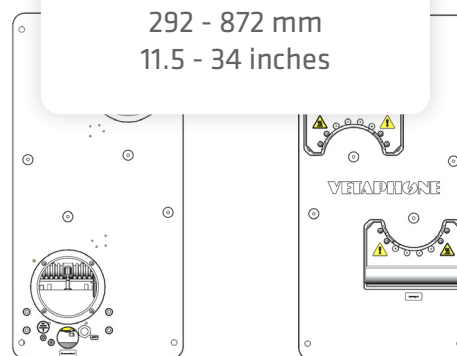
VE2A-M G2 ISO view with HP-Cable

## SPECIFICATIONS

WIDTHS	292-872 mm / 11.5-34inches
SPEEDS	1-300 m/min
SIDES FOR TREATMENT	1-2
ELECTRODES	Ceramic 2-8 pcs
ROLLER COVERING	Stainless steel
ROLLER DIAMETER	Ø98 mm / 3.85 inches
MOUNTING	Cantilevered or base mounting

## WIDTHS

292 - 872 mm  
11.5 - 34 inches



## TECHNICAL SPECIFICATIONS

STATION	TREATMENT WIDTH	ROLLER WIDTH	MOUNTING WIDTH	PULLOUT WIDTH
VE2A-M 340	292 mm / 11.5"	354 mm / 14"	385 mm / 15"	405 mm / 16"
VE2A-M 410	362 mm / 14 "	424 mm / 16.5"	455 mm / 18"	475 mm / 19"
VE2A-M 480	432 mm / 17"	494 mm / 19"	525 mm / 21"	545 mm / 21.5"
VE2A-M 520	472 mm / 18.5"	534 mm / 21"	565 mm / 22.5"	585 mm / 23"
VE2A-M 620	572 mm / 22.5"	634 mm / 25"	665 mm / 26.5"	685 mm / 27"
VE2A-M 720	672 mm / 26"	734 mm / 29"	765 mm / 30.5"	785 mm / 31"
VE2A-M 820	772 mm / 30"	834 mm / 32.5"	865 mm / 34"	885 mm / 35"
VE2A-M 920	872 mm / 34"	934 mm / 36.5"	965 mm / 38"	985 mm / 39"

\*VE2A-M G2 are only available with 2, 4, or 6 ceramic electrodes.



# ***iCORONA GENERATORS***

***FOR NARROW WEB***

**Our intelligent iCorona generators take care of the treatment,  
allowing you to focus on your core business.**

Our generator series for narrow web offers outputs from 1-6 kW in a single generator cabinet.  
iCorona generators up to 2 kW have inbuilt HP transformers.

# FEATURES & BENEFITS

## TOUCH CONTROL PANEL

Our user-friendly 7" LCD touch control panel provides a graphic overview of the entire corona system. The intuitive display provides automatic and intelligent control of variables like substrate matching, production trend screen, and proportional control.

## SUBSTRATE MATCHING

The power to the electrodes is maintained at the highest level possible because of our patented feedback system. This provides a total equipment efficiency of at least 95%, even during changes of substrate or additive.

## PROPORTIONAL CONTROL

iCorona generators are equipped with proportional control relating power and line speed to ensure a constant watt density. Optionally, the control panel can display the actual generator power output in kW, or the energy delivered to the substrate in Wmin/m<sup>2</sup> or Wmin/ft<sup>2</sup>.

## INTERFACE

The field bus communication interfaces are used to integrate the corona system into the complete process control making it easier for operators to understand and manage the production line. All key parameters of corona treatment and production data can be viewed graphically on the operator's main panel.

## MODULAR BUILD

iCorona generators are manufactured for optimum efficiency, with important electronic components built into one easily accessible module. Meaning, servicing the generator is simple and involves only the module. Changing the complete module is quick and will ensure the generator works smoothly and for a longer period.



## WEB CLEANER

Vetaphone manufactures a series of web cleaners designed for narrow web applications. A unique feature is the ability to link it to our iCorona generator, eliminating the need for additional operating systems. The web cleaner is fully integrated with the corona system on the same module and all information required for both web cleaning and surface treatment is displayed on one screen.

# ***WEB CLEANER***

## ***FOR NARROW WEB APPLICATIONS***

**Our series of web cleaners perfectly complements our existing portfolio of market-leading narrow web corona treaters.**

Capable of being fitted to almost any printing press on the market, the intelligent design and use of high-quality elastomer contact cleaner rolls and perforated adhesive rolls ensures that any dry unattached particle, as small as one-micron, is efficiently removed from the web.

# FEATURES & BENEFITS

## **ACTIVE ANTI-STATIC SYSTEM**

The active anti-static system prevents re-contamination of the web after cleaning.

## **LIGHT INDICATOR**

The web cleaner is equipped with an illuminated indicator that acts as the release button for the adhesive rolls, as well as indicating that the web cleaner is ready for operation.

## **SELF-LOCKING CARTRIDGES**

Cartridges are secured in place with a self-locking system to ensure they do not slide out during operation.

## **EASY SIDE ACCESS TO ADHESIVE ROLLS**

Full side access to the adhesive rolls makes it easy for the operator to remove a section of the perforated adhesive roll sheets.

## **EASY SERVICE AND MAINTENANCE ACCESS**

Top opening of the web cleaner allows easy web threading and provides full access to the elastomer rolls for cleaning. The removable side cover offers easy access for maintenance.

## **QUICK RELEASE**

The quick-release system makes it easy to replace the adhesive rolls without the need for tools.

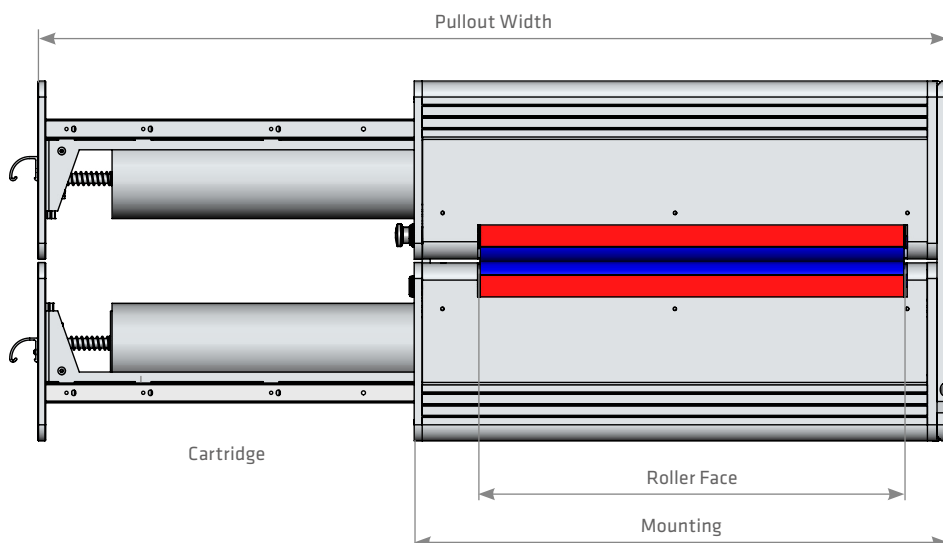
## **FLEXIBLE MOUNTING**

Capable of either back or base mounting, the web cleaner can be installed to suit all web orientations.

## **STAND ALONE / INTEGRATION WITH ICORONA GENERATOR**

The web cleaner coupled with our iCorona generator eliminates the need for any additional systems. This not only allows for easy installation, but enables the press operator to access the machine status, provides an indicator for renewal of the adhesive sheets and other relevant maintenance information.

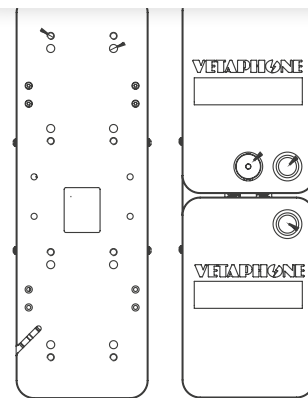
# SPECIFICATIONS VE2W-A



Available for single or double sided operation, our web cleaners are designed to ensure a high-quality end product.



**WIDTHS**  
350 - 570 mm  
13.8 - 22.4 inches



## SPECIFICATIONS

CLEANING WIDTHS	350-570 mm / 13.8-22.4 inches
SPEEDS*	Up to: 250 m/min / 820 ft/min (web driven)*
POWER REQUIREMENTS	24V DC (0.5A)
ACTIVE ANTI-STATIC SYSTEM	24V DC (1.5A)
PNEUMATIC	5-7 Bar clean dry air

\* For speeds higher than 250m/min, contact Vetaphone

## TECHNICAL SPECIFICATIONS

MODEL*	CLEANING WIDTH	MOUNTING WIDTH	PULLOUT WIDTH
VE2W-A 410	350 mm / 13.8 in	519 mm / 20.4 in	460 mm / 18.1 in
VE2W-A 480	430 mm / 16.9 in	589 mm / 23.1 in	510 mm / 20.0 in
VE2W-A 520	470 mm / 18.5 in	629 mm / 24.7 in	560 mm / 22.0 in
VE2W-A 620	570 mm / 22.4 in	729 mm / 28.7 in	660 mm / 25.9 in

SCAN TO FIND YOUR  
LOCAL AGENT



## **SATISFIED CUSTOMERS** **WORLDWIDE**



*AS THE PRINCIPAL MANUFACTURER OF NARROW WEB PRESSES IN THE WESTERN WORLD, AND A GLOBAL MARKET LEADER IN FLEXO TECHNOLOGY, IT IS ESSENTIAL THAT ANCILLARY TECHNOLOGY FITTED TO MARK ANDY PRESSES MEETS OUR OWN CRITICAL STANDARDS OF PERFORMANCE AND RELIABILITY. THE QUALITY OF VETAPHONE DESIGN AND ENGINEERING MAKES THEM OUR PREFERRED SUPPLIER OF CORONA EQUIPMENT FOR ALL MARK ANDY PRESSES IN EUROPE.*

**MARK ANDY / MR. TOM CAVALCO**, VICE PRESIDENT INTERNATIONAL SALES



*AS SUBSTRATES BECOME MORE COMPLEX AND ADDITIONAL SPECIAL PROCESSES ARE REQUIRED, WE NEED TO HAVE ABSOLUTE CONFIDENCE IN THE QUALITY OF SURFACE TREATMENT. IF YOU ARE WANTING TO RUN FILMIC MATERIALS AT SPEEDS IN EXCESS OF 200M/MIN, THE POWER AND CONTROLLABILITY OF THE CORONA SYSTEM HAVE TO BE PERFECT - OUR EXPERIENCE WITH VETAPHONE PRODUCTS GIVE US THE CONFIDENCE TO MAKE PRODUCTION PROMISES TO OUR CUSTOMERS.*

**NILPETER / MR. JESPER JØRGENSEN**, GLOBAL SALES MANAGER



*THEY DELIVER A BETTER FINISHED AND PRESS READY PRODUCT THAN OTHER SUPPLIERS. WE CHOSE TO SPECIFY VETAPHONE CORONA TREATERS ON ALL EDALE PRESSES FOR A NUMBER OF REASONS. WE HAVE HAD A LONG STANDING RELATIONSHIP WITH VETAPHONE AND IN THIS TIME HAVE ALWAYS RECEIVED GOOD SUPPORT AND HAD NO PROBLEMS WITH RELIABILITY OF THE UNITS OUT IN THE FIELD.*

**EDALE / MR JAMES BOUGHTON**, MANAGING DIRECTOR



*WE WANTED TO COME UP WITH A FULLY INTEGRATED SOLUTION FOR CORONA TREATMENT ON OUR PRESSES AND NEEDED A MANUFACTURER THAT WOULD DESIGN AND DEVELOP A SYSTEM FOR THE HIGH END OF THE MARKET. IT NEEDED TO BE CAPABLE OF RUNNING LABEL STOCK AND FLEXIBLE PACKAGING FILMS WITH EQUAL EASE IN A COMBINATION OF UV-FLEXO AND EV-SCREEN. WE KNEW VETAPHONE WAS THE MARKET LEADER IN SURFACE TREATMENT TECHNOLOGY SO WORKED CLOSELY WITH THEM TO CREATE A SYSTEM THAT COULD BE INTEGRATED ACROSS OUR RANGE OF PRESSES."*

**MPS / BERT VAN DEN BRINK**, CO-FOUNDER & SPECIAL ADVISOR

*Advanced Corona Treatment by*

**VETAPHONE**

*Inventor. Innovator. Pioneer.  
Your Only Choice.*

BOOK OUR VIRTUAL SHOWROOM &  
TEST LAB FOR YOUR BUSINESS



SCAN ME

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