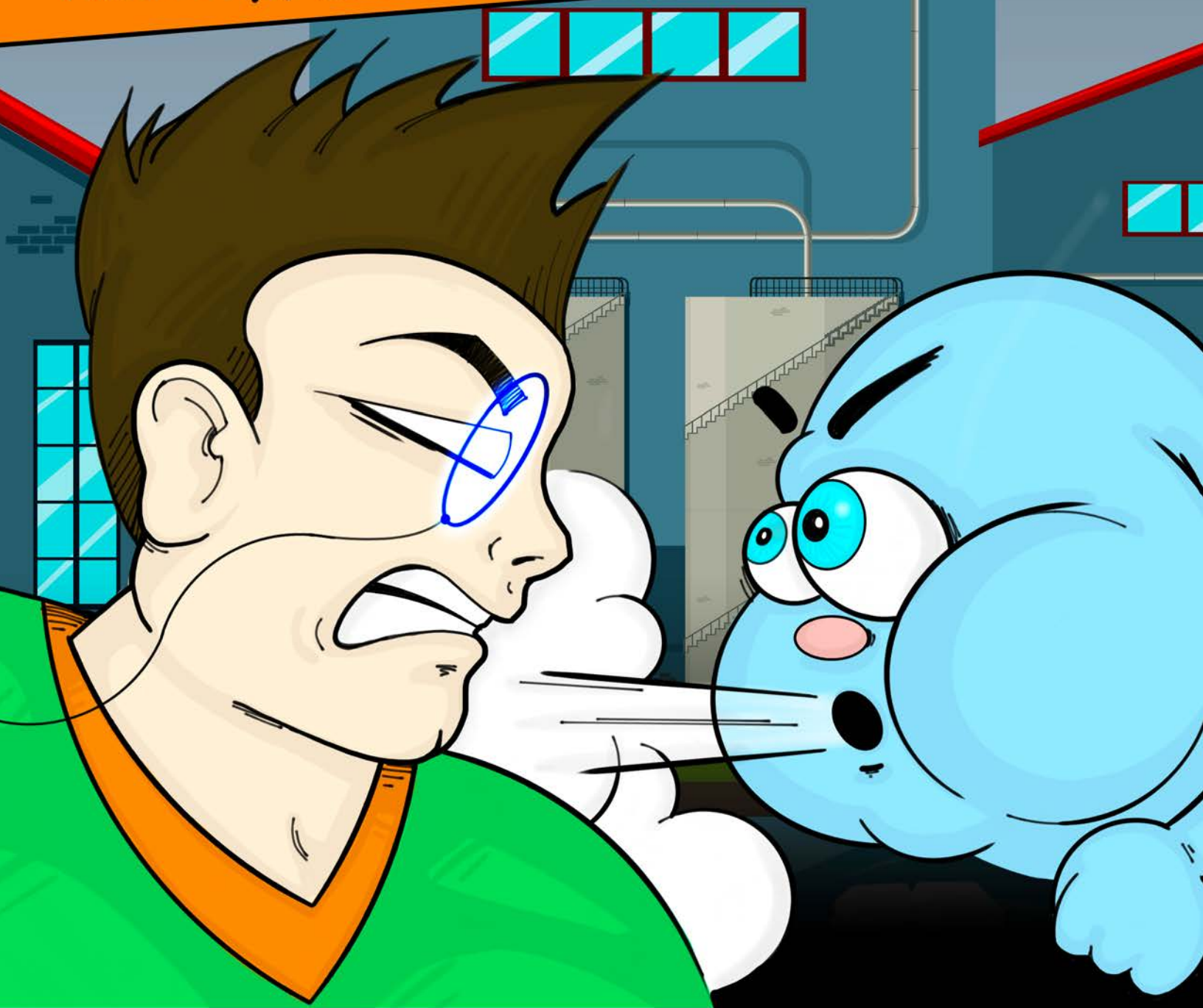


# **FAN DEFENDER**

BY VERANTIS

PRESENTS A CAPTAIN FANTASTIC ADVENTURE



IN THIS EPISODE, THE TEAM TAKES ON **WHEEZY!**



UH OH, LITTLE BUDDY...

I CAN SENSE A WEAK FAN. IT'S SUFFERING FROM A LOSS OF FLOW.

YOU MEAN LIKE A CLOGGED DRAIN, CAPTAIN FANTASTIC?

UM... YES, ACTUALLY. LOSS OF FLOW CAN BE CAUSED BY DRIVE SYSTEM FAILURES, CLOSED OR OVERLY RESTRICTIVE INLET OR OUTLET DAMPERS INCLUDING IMPROPER USAGE. **THIS ISSUE HAS WHEEZY WRITTEN ALL OVER IT.**

IS LOSS OF FLOW BAD, BOSS?

THE LOSS OR DISRUPTION OF FLOW CAN POTENTIALLY LEAD TO **CATASTROPHIC FAILURE.**

I'D SAY THAT'S PRETTY BAD!

SCANNING....



HEY CAPTAIN ...WHEEZE WHEEZE...  
SAY HELLO TO ...WHEEZE... LESS AIR  
FLOW...AND HAVE A  
...WHEEZE WHEEZE... **BLAST!**

THAT'S NOT FUNNY, WHEEZY. WITH  
**FANDEFENDER** INTEGRATED WITHIN THE  
FAN HOUSING, THERE'S NO NEED FOR A  
CONTAINMENT BLANKET. IT ALLOWS EASIER  
ACCESS FOR MAINTENANCE, CAUSES LESS  
HEAT BUILDUP, AND BEST OF ALL, COSTS  
LESS! IT ALSO PROVIDES THAT EXTRA  
LAYER OF SECURITY AND PROTECTION FOR  
PLANT STAFF AND EQUIPMENT.

**TIME TO BLOW YOU  
AWAY, WHEEZY!**

**ZAP!**

EASY BREEZY, NEVER  
WHEEZY, BOSS!

WE CAME, WE SAW, WE LEFT 'EM  
...**BREATHLESS.**



# SAFE AND AFFORDABLE PROTECTION WITH FANDEFENDER®!



Whether through human error, age or environmental wear and tear, fans can encounter component failure at some point in their lifespan. Verantis FanDefender containment housing provides a convenient option to improve the safety of your plant staff in an affordable and hassle-free application.

FanDefender's proprietary design incorporates a hybrid-engineered, fiber laminate design that vastly improves damage tolerance and impact resistance over commonly used aramid-based blankets. FanDefender containment housing is designed to contain an impeller at up to three times the max catalog speed of the fan. Safety shouldn't be a product that only a few can afford!

## FANDEFENDER® BENEFITS:

- » Integrated within the housing construction for excellent durability
- » No bulky, heavy blankets to remove which allows for easier maintenance
- » Proprietary blend vastly improves damage tolerance and impact resistance over blankets and other containment systems
- » Higher impact energy absorption
- » Lower weight than aramid and carbon fiber
- » Lower cost which makes it affordable for even the smallest applications
- » High moisture resistance
- » Increased vibration dampening
- » High environmental durability is resistant to chemicals

	Aramid	Fiberglass	FanDefender
<b>Density g/cm3</b>	1.44	1.66	2.7
<b>Tensile Strength MPa</b>	2400-3600	103	4800+
<b>Modulus (stiffness) GPa</b>	60-120	6.89	89
<b>Elongation at Break %</b>	2.2 – 4.4	4.0-8.0	7 – 9+
<b>UV Resistance</b>	Poor	Good	Excellent
<b>Solvent Resistance</b>	Fair	Good	Excellent
<b>Moisture Absorption %</b>	3.2 – 7.0	-	<.2
<b>Impact Behavior* Ea/Ei</b>	0.92	-	0.55

*\*The lower the number the better impact resistance*



## CONTACT VERANTIS

Contact Verantis for more information on how we can help you find the best environmental solution for your company. Please visit us at [www.verantis.com](http://www.verantis.com) or email [sales@verantis.com](mailto:sales@verantis.com).

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