

# AC 200 - 630 VSD - Refrigeration dryers

## Features & Benefits

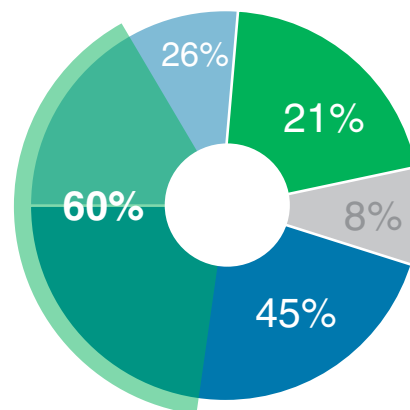
- ▶ Variable frequency drive providing Variable frequency drive providing unmatched energy savings
  - Up to 60% in energy savings
  - Patented heat exchangers on air to air side allow very low internal pressure drops 100 - 180 mbar (1,5 - 2,6 PSI) depending on the size resulting in less energy consumption of the compressor at or below 0.18 bar / 2.6 PS
  - Faster payback as low as 1.5 years as compared to non-cycling or thermal mass dryers
- ▶ Increased uptime, powered by ICONS and new PureLogic™ for advanced control and monitoring
  - PureLogic™ controller
    - » Touch based advance controller
    - » Modbus, Profibus or Ethernet/IP, no extra interfaces required
  - Intelligent connectivity system (ICONS)
    - » Insights from PureLogic™ controller delivered to your device
    - » On-time maintenance to control costs and ensure a longer machine life.
    - » Recognize potential problems before they affect your uptime

## General Specifications

- ▶ Stable and guaranteed performance at all operating conditions - PDP of 3°C – ISO 8573- 1:2010 air purity class 4 guaranteed
- ▶ Reduced power consumptions at all conditions – performance is guaranteed even at ambient conditions as high as 46°C (115°F)
- ▶ 100% of the compressed air nominal flow at all operational temperatures up to the maximum.
- ▶ No oversizing necessary for operation at maximum temperature with 100% of the nominal flow
- ▶ Reduced energy consumption of the dryer compared to oversized solution
- ▶ Fully Hermetically Sealed Refrigerant Compressor with VSD Inverter
- ▶ Patented Energy efficient HEAT EXCHANGER
- ▶ Purelogic™ Controller
- ▶ Zero Loss Drains
- ▶ Single Electric Connection for easy and smooth installation



**Reduced total cost of ownership and faster payback – as low as 1.5 years thanks to reduced power consumption:**



- Energy consumption by the dryer
- Energy consumption by the compressor due to pressure drop
- Investment
- Installation and maintenance
- **Savings - 60%** - A unique combination of high-efficiency components, smart unit design and an advanced control system enables you to achieve average energy savings of 60%



The AC VSD from Pneumatech raises the bar in refrigerant dryer performance. Using variable speed drive technology, it significantly reduces energy consumption while consistently supplying top-quality air. And, thanks to a carbon footprint that is smaller than that of its competitors, it even benefits the environment.

AC 200-630 VSD is Pneumatech's premium refrigeration dryer range at smaller flows: from 360 to 1080 Nm<sup>3</sup>/hr (210 CFM to 635 CFM)

The new AC VSD refrigerant dryer from Pneumatech was engineered to make a difference, delivering energy savings of up to 60%. At the same time, the AC VSD supports production quality and reliability and offers a small carbon footprint.

The use of variable speed drive (VSD) technology ensures that the AC VSD only uses the energy it needs at any point. The result is a much lower electric bill that greatly reduces the total cost of dryer ownership.

At the same time, Pneumatech's new dryer produces a stable supply of Class 4 purity air, which helps protect production reliability and quality. The AC VSD maintains its low dew point even in ambient temperatures of up to 46°C.

In spite of its sophisticated technology, the dryer is easy to operate thanks to its intuitive PureLogic™ controller. Users can even analyze and optimize their dryer's performance from anywhere by taking advantage of the advanced connectivity and remote monitoring option.

But the AC VSD's benefits extend beyond its outstanding performance. Due to its low energy consumption, it features a smaller carbon footprint than its competitors. Combined with an excellent TEWI-score, it helps companies meet their climate goals.

Lastly, the new AC VSD from Pneumatech is more compact than conventional dryers and can fit even in tight spaces.

Technical specifications for AC 200-630 VSD							
Specifications ↓	Units	AC200 VSD	AC300 VSD	AC400 VSD	AC450 VSD	AC550 VSD	AC630 VSD
Maximum conditions at full flow ambient (Inlet) temp	°C	46 (60)	46 (60)	46 (60)	46 (60)	46 (60)	46 (60)
Inlet flow for pressure dew point (PDP) of 3°C / 37.4°F	l/s	100	140	180	220	260	300
	cfm	212	297	381	466	551	636
	m <sup>3</sup> /hr	360	500	650	790	940	1080
Pressure drop at full flow	bar	0.16	0.11	0.18	0.14	0.1	0.18
	psi	2.3	1.6	2.6	2	1.5	2.6
Power consumption	kW	0.66	1.04	1.54	1.77	1.9	2.64
	hp	0.90	1.41	2.09	2.41	2.58	3.59
Max. working pressure	bar	14.5	14.5	14.5	14.5	14.5	14.5
	psi	210	210	210	210	210	210
Compressed air connections (NPT for UL version)		G 1 1/2" F	G 2" F	G 2" F	G 2 1/2" F	G 2 1/2" F	G 2 1/2" F
Dimensions	mm	805	805	805	805	805	805
	inch	31.69	31.69	31.69	31.69	31.69	31.69
	mm	962	962	962	962	962	962
	inch	37.87	37.87	37.87	37.87	37.87	37.87
	mm	1040	1040	1040	1040	1040	1040
	inch	41	41	41	41	41	41
Weight	kg	130	134	134	143	150	165
	lbs	287	295	295	315	331	364