AIR DRYING AND BLOW-OFF SOLUTION

Save Energy

Improve Quality

Increase Capacity

Reduce Noise

PERFORMANCE GUARANTEE

PAWIN ENGINEERING CO.,LTD.

www.pawin.co.th

Blower Air System

Using blower air systems for drying and blow-off applications yields many advantages, including:

ประหยัดพลังงาน: ประหยัดพลังงานได้ถึง 80%

เพิ่มคุณภาพ: เป่าได้ทั่วถึงและแห้งสนิท ลมร้อนที่ออกมาสะอาด, ไม่มีน้ำมัน

เพิ่มผลผลิต: เพิ่มความเร็วในการเป่าแห้งและเป่าผง

ปลอดภัยต่อสภาพแวดล้อม: เสียงเบาและใช้ความดันน้อย ปลอดภัยต่อผู้ใช้งาน

บำรุงรักษาง่าย

ทนทาน: สามารถทำงานได้ต่อเนื่อง

Regenerative Blower

Air delivery up to 2395 m3/h – Pressure up to 750 mbar

FEATURES

- Low maintenance, direct drive operation
- Rugged cast aluminum construction and long life time
- Continuous, non-pulsating, oil-free and heated air
- Low noise
- Lightweight
- Tropicalized for corrosion protection
- IE2 and TEFC motors; CE and cURus certified

MADE IN ITALY

Specification – 50 Hz (2900 rpm)

MODEL	50760-2.2L	50760-3L	50760-5.5L	50760-7.5L	50760-11L	50760-15L	50760-18.5L	50760-22L
kW/ HP	2.2/2.95	3/4	5.5/7.4	7.5/10	11/14.7	15/20.1	18.5/24.8	22/29.5
Volt (Δ)/ Volt (Y)	200-240/ 345-415	200-240/ 345-415	345-415/ 600-720	345-415/ 600-720	400/ 690	400/ 690	400/ 690	400/ 690
Max Flow (m^3/h)	320	320	520	700	782	915	1325	1764
Max Pressure (mbar)	200	275	300	275	350	400	360	275
Noise (dB)	69	69	70	70	78	79	85	88
Weight (kg)	29	34	63	69	125	147	158	187

Air Knife

For proper drying and blow-off, the air knives must deliver strong air stream integrity. Our WindJet air knives feature three main characteristics which result in uncompelling performance; namely, Coanda effect, unique leading edge and its teardrop shape. The benefit is clear – a uniform, high-volume and constant air stream along the entire knife length ensures no spotting or blotching which means a higher quality and consistent blowing/ drying process.

Coanda Effect + Teardrop Shape + Leading Edge

- Uniform, high volume and constant air stream
- Consistent air flow throughout the length
- Eliminate the spotting and blotching problem
- Increase total air volume

50750: Aluminum Air Knife

FEATURES

- Aluminum. Corrosion-resistant finish
- Use air knife with integrated adjustable nozzles to simultaneously direct air onto flat surface and hard-to-reach area

50700: Stainless Steel Air Knife

FEATURES

- 316 Stainless Steel. Corrosion-resistant

Air Knife – Model Chart

Example	50750	-24	-040	-2L	50750-12-040-2L
Model	50750 50700				Aluminum Air Knife Stainless Steel Air Knife
Length		XXX			6" to 165"
Slot Size			XXX		0.040" or 0.060"
Option				XL -	Number of adjustable nozzles (1-4) None

Air Nozzle

55155: Air Cannon

FEATURES

- For drying holes in irregularly shaped parts and seams
- Concentrate large volume of air flow and deliver a high velocity air stream

32254: Blower Nozzle

FEATURES

- High impact, high flow velocity and low pressure
- Available in headers

YBLW: WindJet® Blower Air Nozzle

FEATURES

- High impact, high flow velocity and low pressure
- Available in headers

Air Cannon – Model Chart

Example	55155	-750	-AL	55155-750-AL
Model	55155			Air Cannon
Slot Size		XXX		500 or 750 or 1000 mm
Material			AL SS	Aluminum 316 Stainless Steel

Blower Nozzle – Model Chart

Example	32254	-1.0	-304SS	32254-1.0-304SS
Model	32254			Blower Nozzle
Slot Size		XXX		1.0 or 1.5 mm
Material			304SS	304 Stainless Steel

WindJet® Blower Air Nozzle – Model Chart

Model	Description
YBLW-B1/2-SS	WindJet Blower Air Nozzle 304 Stainless Steel

Blower Assembly Accessories

AIF: Air Inlet Filter

FEATURES

- Prevent particles from entering the blower
- Ensure trouble-free operation
- Filtration: Paper (standard), Polyester and HEPA filter for extreme filtration

PRV: Pressure Relief Valve

FEATURES

- Protect pressurized equipment from overtaking of an admitted pressure limit
- Emergency discharge of pressurized fluids when a set pressure is reached

PG: Filter Monitoring Gauge

FEATURES

- Monitor outlet pressure

MF: Mounting Flange

FEATURES

- Incorporate pressure gauge and pressure relief valve inline with out-going tubing
- Size: 2.5", 3", 4"

BS: Vibration Mounting Bracket

FEATURES

- Isolate vibration to structure and environment

SCBRPRKT: Repair Kit

FEATURES

- Repair kit for blowers

Package Accessories

50771: Manifold

FEATURES

- Stainless steel or plastic
- Y-divider, 3-port, 4-port, 5-port and 6-port

MB: Mounting Bracket

FEATURES

- Stainless steel
- Adjustable brackets for mounting air knives and air cannons

5408: Coupling

FEATURES

- Use between any rigid connections to prevent air leakage and add support for connection
- Size: 2.5", 3", 4", 6"

50779: Elbow

FEATURES

- Reduce pressure losses in the system

Flexible/ Rigid Tubing

FEATURES

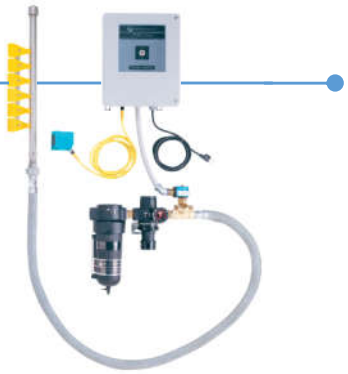
- Flexible tubing and stainless steel rigid tubing
- Worm-gear clamps for attachment

Enclosure

FEATURES

- Insulator
- Noise reduction by 10 dBa

Compressed Air System



Air Nozzle

FEATURES

- Generate efficient and controlled air pattern for a uniform spray distribution
- Produce low noise levels
- Material: ABS plastic, Polyphenylene sulfide, Aluminum, Stainless Steel
- Inlet Connection: 1/8" - 3/8" M or F

AA727 – Flat Fan	AA707 – Round Spray	UniJet Nozzle	Y767 – Compact

Air Knife

57070: WindJet® Low Flow Air Knife

FEATURES

- Uniform air flow across the entire length of air knife
- High velocity air stream
- Reduce energy use
- Maintenance-free; no moving parts
- Lower noise levels, 69 dBa for most applications
- Easy to install and maintain
- Compact and designed for small areas
- 316SS available for sanitary applications
- Available shim sets - 0.03, 0.05, 0.08, 0.10 mm to adjust air force and flow.

WindJet® Low Flow Air Knife – Model Chart

Type	57070	-3	-AL	57070-3-AL
Model	57070			Low Flow Air Knife
Length		3		3, 6, 12, 18 or 24
Material			AL 316SS	Aluminum 316 Stainless steel

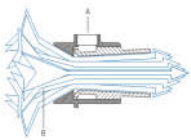
Standard shim of 0.05 mm thick is installed

Air Amplifier

57080: WindJet® Variable Air Amplifier

FEATURES

- Ideal for spot drying, blow-off and exhaust
- Deliver a targeted high volume, high velocity amplified air stream
- Save on air consumption (up to 90%)
- Maintenance-free; no moving parts
- Low noise levels – meets OSHA pressure and noise requirements



WindJet® Variable Air Amplifier – Model Chart

Model	Inlet	Air Consumption	Amplify Ratio
57080-075	1/8NPT	263 Nlpm	10
57080-125	1/4NPT	370 Nlpm	16
57080-200	3/8NPT	606 Nlpm	20
57080-400	1/2NPT	1424 Nlpm	24

Accessories

Compressed Air Flowmeter

FEATURES
- Measure mass flow by thermal dispersion
- Install within minutes
- Built-in LED display
- Size: 1/2" to 8"
- Pulse/ current outputs
- CE certified and RoHS compliant

Digital Sound Meter

FEATURES
- Measure noise levels from 30 to 130 dB
- Accuracy: ±1.5 dB
- Hold data, records max or min, auto ranging, auto power-off and dynamic range of 50 dB

2-Way Solenoid Valve

FEATURES
- Designed for automatically operated systems requiring on/off flow
- Air temperature up to 82˚C
- Class F coils for continuous duty
- UL, CSA and CE approved

Filters and Regulators

FEATURES
- Aluminum and polycarbonate construction
- Manual, semi-auto or autodrain available
- Non-rising adjustment knob with push-pull lock ring feature
- Pressure gauge is available

Compressed Air Fitting & Hose

FEATURES
- Hex Nipple
- Close Nipple
- Coupler
- Reducer
- Tee
- Elbow
- Cross
- Bulkhead Fitting
- Quick Connect Pneumatic Fittings

Stay-n-Place Hoses and Magnetic Mounting Bases

FEATURES
- Easy-to-use, flexible source of targeted air that is changeable
- Once the hose is in place, it will not move or relax its position
- The magnetic base, with built-in valves, can be mounted vertically or horizontally
- Bendable hoses won't move once in place

36275: Adjustable Ball Fitting

FEATURES
- Adjustable positioning of nozzle for more exact control of spray direction
- Enable easy removal and cleaning of nozzles
- Maximum pressure rating: 21 bar

RCh: Pressure Gauge

FEATURES
- Monitor inline pressure
- Dial Size: 2.5", 4"
- Pressure Range: 0-4 bar, 0-6 bar and 0-10 bar
- Center back, Bottom ¼" or ½" connection

Compressed Air Hose

FEATURES
- Reinforced synthetic rubber to assure long life

Manual Valve

FEATURES
- High quality stainless steel ball valve

Muffler

FEATURES
- Help to reduce noise

Drying and Blow-off Solution

The number and length of air knives, nozzles, blower size and necessary accessories vary depending on your application. We offer drying and blow-off solution designed specifically for your applications.

Benefits of choosing PVN Drying and Blow-off Solution

- **Performance guarantee**
  We guarantee drying and blow-off performance according to your requirements
- **Long and various experience to meet your exact needs**
  Expertise in blower air solutions; whatever your applications are, we have the optimal solution for you
- **Just for you solution**
  Our solution is tailor-made for your application with your objectives in mind. Whatever your challenges are, we design our systems to solve them for you.
- **1-Year on-site service**
  We provide an on-site service during the first year of operation

Reference List:

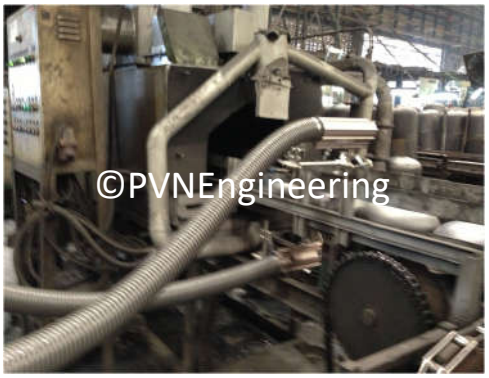
Molding Blow-off

Milk Bottle Drying

Battery Washing and Drying Machine

Soft Drink Bottle Blow-off

Metal Tube Drying



Gas Cylinder Drying

PVN ENGINEERING

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Let Us Help Optimize Your Air Drying and Blow-off Operations

Applications

Drying • Blow-off • Cooling • Conveying • Separating • Cleaning • Removal

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