## THEREC CORPORATION LTD.



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### Side Channel / Ring / Regenerative Blower

# \* FPZ BLOWER TECHNOLOGY

# THE WORL'S LARGEST PRODUCER



MS Series /Single impeller ,Single stage
Flow rate Up to 1,234 m³/hr
Pressure up to +500 mBar
Vacuum down to -375 mBar
Material in Aluminium casting
ATEX explosion proof version is available



MD Series /Single impeller ,Double stage
Flow rate Up to 473 m³/hr
Pressure up to +750 mBar
Vacuum down to -500 mBar
Material in Aluminium casting
ATEX explosion proof version is available



TS Series /Twin impeller ,Single stage
Flow rate Up to 1,985 m³/hr
Pressure up to +450 mBar
Vacuum down to -350 mBar
Material in Aluminium casting
ATEX explosion proof version is available



TD Series /Twin impeller ,Double stage
Flow rate Up to 1,007 m³/hr
Pressure up to +650 mBar
Vacuum down to -500 mBar
Material in Aluminium casting
ATEX explosion proof version is available





# THE ORIGINAL ROOTS BLOWER FROM USA













URAI Series / Bi lobe impeller
Flow rate Up to 4,026 m³/hr
Pressure up to +1,034 mBar
Vacuum down to -539 mBar
Material in Cast iron
GAS & Explosion proof version is available

RAM Series / Bi lobe impeller
Flow rate Up to 6,030 m³/hr
Pressure up to +1,240 mBar
Vacuum down to -539 mBar
Material in Cast iron
GAS & Explosion proof version is available

RAM-VJ Series / Bi lobe impeller
Water jet Vacuum pump
Flow rate Up to 4,250 m³/hr
Vacuum down to -813 mBar
Material in Cast iron

RBTM Series / Bi lobe impeller
Bulk Truck Blower
Flow rate Up to 4,250 m³/hr
Pressure up to +1,241 mBar
Material in Cast iron

Tri-RAM Series / Tri lobe impeller Flow rate Up to 82,850 m<sup>3</sup>/hr Pressure up to +1,000 mBar Material in Cast iron

RAS ,RGS Series / Bi lobe impeller
Flow rate Up to 73,440 m³/hr
Pressure up to +2,413 mBar
Vacuum down to -539 mBar
Material in Cast iron
GAS & Explosion proof version is available



### Multi Stage Air & Gas Centrifugal Blower



Flow rate Up to 4,500 m<sup>3</sup>/hr Pressure up to 10,000 mmAq (1.0 bar) Material in cast aluminium Stainless steel shaft is available on option **Explosion proof, ATEX version. is available** Special seal for gas tight version Internal special coating for corrosive gas & **Biogas** 





Flow rate Up to 400,000 m<sup>3</sup>/hr Pressure up to 2,800 mmAq Material in Carbon & Stainless steel Stainless steel shaft is available on option Explosion proof version, is available Internal special coating for corrosive gas & **Biogas** 

### **Industrial Type Axial flow fan**



# SAVIO s.r.l.



Flow rate Up to 150,000 m<sup>3</sup>/hr Pressure up to 165 mmAq Material in Carbon & Stainless steel High temperature version is available **Extraction towers for roofs** 



In-line fans with removable bodies and small size for high temperatures (250°C) designed to work interleaved in chimney ducts
Flow rate Up to 2,900 m³/hr
High temperature option, up to 250 degree C



Fan designed with the most advanced technology & experience to withstand extreme working condition in oven, drier and other application with high temperature and humidity

Flow rate Up to 68,000 m<sup>3</sup>/hr High temperature option, up to 150 degree C



Centrifugal single-inlet, medium & highpressure fans with casing and impeller made from cast aluminium Flow rate Up to 2,300 m³/hr Pressure up to 945 mmAq High temperature option, up to 250 degree C



Centrifugal single-inlet, medium-pressure fans with casing and straight-blade impeller made from cast aluminium to transport dust and solids

Flow rate Up to 3,115 m<sup>3</sup>/hr
Pressure up to 945 mmAq
High temperature option, up to 250 degree C



Plastic anticorrosive centrifugal fans with and without ATEX certification Flow rate Up to 4,500 m<sup>3</sup>/hr High temperature option, up to 400 degree C



Smoke extract roof fans 400°C/2h centrifugal roof fans with horizontal or vertical outlet air Flow rate Up 10,429 m³/hr High temperature option, up to 400 degree C

Explosive atmospheres ATEX fans High efficiency "Efficient Work" fans



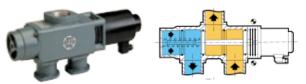


### **Blower Accessories and Related Equipment**

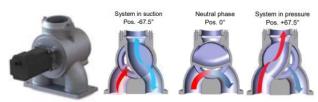




Pressure and Vacuum relief valve Size 1.0,2.0,3.0 & 4.0 inches Flow rate Up to 2,000 m<sup>3</sup>/hr Pressure up to 600 mBar Vacuum down to 450 mBar



Flow Reversing Valve ,Size 2.0 & 3.0 inches Pneumatic and Electrical control, 24 VDC and 220 VAC



Flow reverse valve, Size 1.5 & 2.0 inches Suitable for Blower Model K04 MS, K05 MS & K06 MS

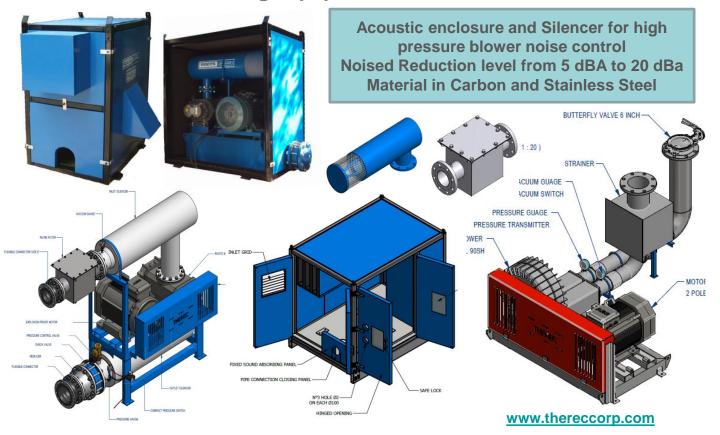


### The fpz air knife is made for the applications:

- -Drying water removal, moisture residues remove
- -Cooling down for plastic products and metal parts
- -Cleaning material residue removal, dust residue removal

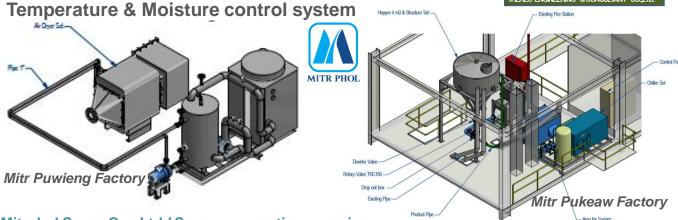
### **Windblade**<sup>™</sup> Air Knife

### **Our own manufacturing Equipment**



### Air & Gas Boosting & Handling system

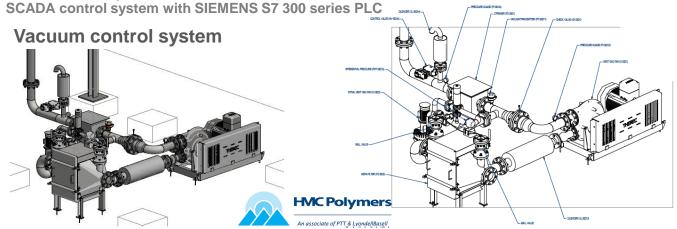




Mitrphol Sugar Co., Ltd./ Sugar pneumatic conveying

Contacted conveying air moisture control to the level below 35% relative humidity to protect the sugar lump and stickiness from ambient moisture.

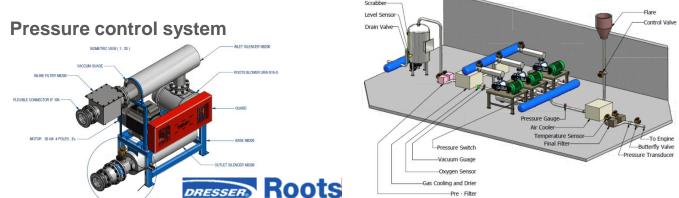
Contacted temperature to be under 38 degree C, to protect the internal moisture from flashing out and make the crystal to be dim.



### HMC Polymer Co., Ltd./ PTT Group of company, job in cooperation with CR Asia

Vacuum control system for central vacuum cleaning system operation, operated by vacuum transmitter and pneumatic control valve to maintain the vacuum level of the system at -300 mBar and maintain the averaged suction air volume of each individual suction point at around 200 cfm of all working condition. Also the differential pressure switch for the filters.

SCADA control system with ALAN BRADLEY 500 series PLC



### Chareon Sompong Co., Ltd./ Underground Biogas from landfill site

Pressure control system for bio gas boosting station / supply to gas engine of electrical generator By pressure transmitter and pneumatic control valve to maintain the pressure of 7 PSI supply to engine regulator and over supply gas to the flare with gas cooler and cooling tower set to maintain the feed in gas to be under 50 degree C and reduced the water content level in the biogas. Also with oxygen sensor/transmitter and safety vacuum switch. SCADA control system with SIEMENS S7 200 series PLC

### Engineering design package set



Roots Blower Package for waste water treatment aeration system /
Thai Union Frozen Product (Public) Co.,Ltd.



Roots Blower Package with filter and header / in SUS 304 / for waste water treatment plant
Biogas boosting set for Electrical power generator



Roots Blower Package for pneumatic conveying system
The Siam Cement (public) Co.,Ltd.



Ring Blower Package for pneumatic conveying system United Food Co.,Ltd.



Multi stage centrifugal Blower Biogas boosting set for Electrical power generator Ekarat Bio Power Co,Ltd.

### On site Installation Service & Commissioning















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