



**VULCAN MACHINERY CORP.**

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*Engineering Makes The Difference™*

**WATER REMOVAL UNIT  
WRU series**



Model Number	Opening (inches)	Horse Power
WRU14	14	10
WRU18	18	10
WRU24	24	10
WRU30	30	10
WRU36	26	18
WRU42	42	18

**APPLICATION:**

- The Water Removal Unit is a high velocity air wipe system used for stripping water from strand or profile extrusions upon exit from the cooling process and prior to granulator entry. The extrudate is first introduced to the high velocity positive pressure air from a regenerative blower. This is accomplished by positioning a remote air knife at the cooling process exit. The bulk of the process water is removed from the extrudate and returned to the cooling tank. Second, the vacuum generated at the blower intake is applied to remove the residual moisture from the extrudate. This method has proven to be 40-50% more efficient than using a positive pressure air knife alone. Finally, the moisture is accumulated within the air/water separator tank and delivered to the plant drain or recirculation system.
- Current models include the installation of an adjustable lip air knife designed to develop an efficient high velocity air jet. The adjustable angle width of the discharge venturi is designed to maximize the wiping action of the air knife. Additionally, a diaphragm type pump drain system has been developed to evacuate the air/water separator tank. Water is now forced from the tank at a considerably higher flow rates than the previous gravity fed drain system

## **PERFORMANCE:**

- Max. flow – 800 CFM
- Max. pressure – 105" H<sub>2</sub>O
- Max. vacuum – 95" H<sub>2</sub>O
- Max. nozzle velocity – approx. 20,000 FPM
- Inlet and outlet sound dampening

## **CASTERS:**

- 6" dia. x 2" wide swivel urethane wheels
- Adjustable screw type floor jacks

## **FRAME:**

- Heavy wall tubing, steel plate and structural sections
- Two rigid and two swivel casters and hold-downs
- Screw type floor jacks
- Fully guarded drive train and electrical components

## **ELECTRICAL:**

- Standard Electrical is 230 Volt/3 Phase/60 Hertz
  - Electrical other than the above is available as an option



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