

PVC Seals Profile Manufacturing Line (Ref ID SM4345)

Detail Specification Of Apex 65mm.Extruder Rigid P.V.C. & 50mm Soft PVC Profile Extrusion Plant Consist Of:-

EXTRUDER: 65mm Screw dia. For Rigid PVC

- 65mm dia Screw & Barrel made from special nitro alloy steel EN-41 B material, machined to close tolerance, gas nitride and screw hard chrome plated.
- Screw, Barrel & mandrel combined together on heavy-duty in-built thrust housing and mounted on heavy-duty fabricated channel structure.
- Barrel provided with water jacket
- Heavy gauge sheet metal covering & safety guards.
- 15HP. AC. Electric standard make motor as Extruder drive
- Frequency Controller of ABB / Yasukawa make for 15 HP. AC. Electric Motor.
- Heavy- duty in built thrust housing reduction Gear Box for Extruder.
- 230 Volt operated in built motor 3No.blower, as force cooler, for barrel overheat shooting
- One set of band heaters for barrel heating.
- Breaker plate made from stainless steel material.
- Die head & Die made from alloy steel material with high surface finish.

EXTRUDER: 50mm For Soft PVC

- 50mm Extruder mounted on Heavy- Sturdy Pillar mounting attachment with rollers for easy movement & height adjustment.
- Extruders Screw & Barrel made from nitro alloy steel material, bore to the close tolerance, hardened by gas nitride.
- Built in thrust housing for screw & barrel mounting.
- A.C. motor of 7.5 H.P with ABB/LG/Yasukawa make frequency speed controller.
- 3 Zone digital Temperature control panel with temperature sensing device.

PYROMETER CONTROL PANEL:

- Pyrometer Control Panel for Extruder complete with 9 zone PID digital type indicating pyrometers.
- Out of 9 Pyrometers 3 No. Pyrometers provided with double point setting, means as the heating cut off – force cooling will start through blowers mounted on extruder barrel.

- MCB switches provided for mains supply & heating zone.
- Standard make contactors for on-off supply of heaters.
- Ampere meters provided on each pyrometer control zone for heating load indication.
- Three phase indicating lamp & selector switch for each phase supply voltage.
- Thermocouple sensing for each pyrometer zone for temperature sensing.
- Frequency Controller of ABB /Lg/ Yasukawa makes for 15 HP. AC. Electric Motor of extruder, 7.5 H.P. Electric Motor for soft pvc extruder & 2 H.P. Electric motor of take-off unit with synchronizing system.

CALIBRATION UNIT:

- Sturdy fabricated structure with forward –reverses movement & up down movement.
- Sizing device mounting arrangement.
- Water inlet & outlet arrangement.

HAUL OFF (Traction) UNIT:

- Traction unit fabricated from heavy-duty channels & angles.
- 2 H.P. AC. Kirloskar/Crompton/Hindustan make AC. Electric motor for haul off drive
- Yasukawa/Delta make frequency controller for 2 HP. AC. Electric motor for haul off drive.
- Pair of wide size endless toothed belts pulls the product uniformly.
- Upper & lower jaws of pulling track, to adjust the gap between two pulling grip.

AUTOMATIC CUTTING & TILTING UNIT:

- Automatic cutting unit fabricated from heavy-duty channels, angles & plates.
- AC electric motor of 1 H.P. Provided for cutting operation.
- Necessary Limit switches provided for clamping operation.
- Circular saw to cut extruded pipe.
- Forward reverse movement travel of cutting assembly mounted on heavy fabricated structure.

AIR COMPRESSOR

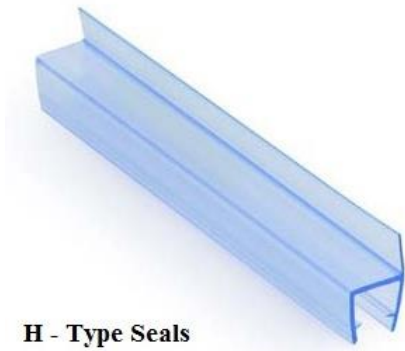
- 1 hp motor Air compressor of famous “Toyo” Brand for providing necessary air to the automatic cutting & tilting unit.

DIE AND SIZER

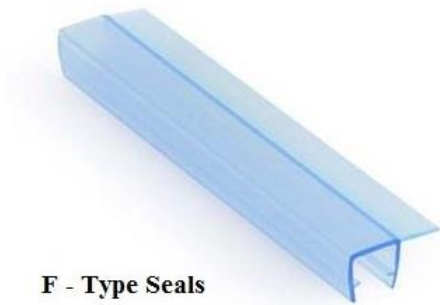
- Die and sizer of all the below 3 shapes i.e “D-type”, “H-Type”, “F-Type” in 8mm size, 10mm size and 12mm size.



D - Type Seals

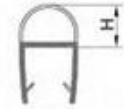
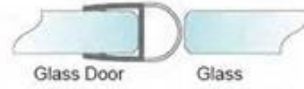


H - Type Seals



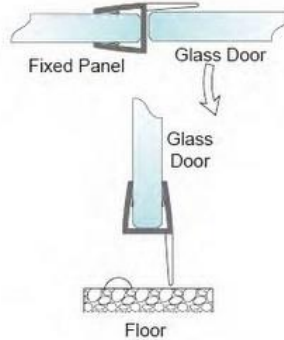
F - Type Seals

Product Code :- E - 1001



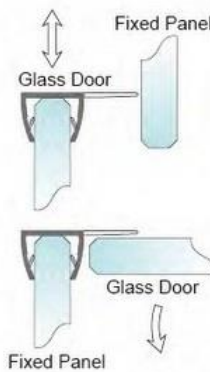
GLASS THICKNESS	HEIGHT (H)
8mm	5mm
10mm	6mm
12mm	7mm

Product Code :- E - 1002



GLASS THICKNESS	LENGTH (L)
8mm	8mm
10mm	9mm
12mm	10mm

Product Code :- E - 1003



GLASS THICKNESS	LENGTH (L)
8mm	8mm
10mm	9mm
12mm	10mm

CHILLER:-

Design Features And Technical Specifications

MODEL: ACS-30-50 (AIR – COOLED MODEL).

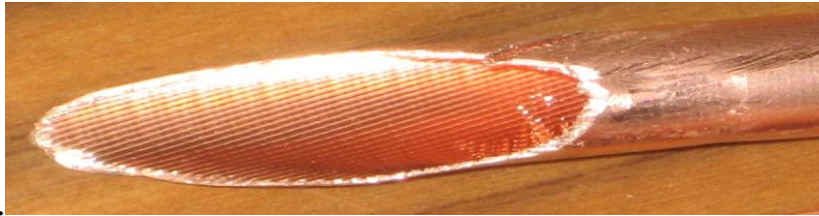

DESIGN: Complete system is fabricated from MS Structure and inbuilt consisting
Consisting of Compressor, Heat Exchanger, Primary & secondary Heat Exchanger Expansion valve

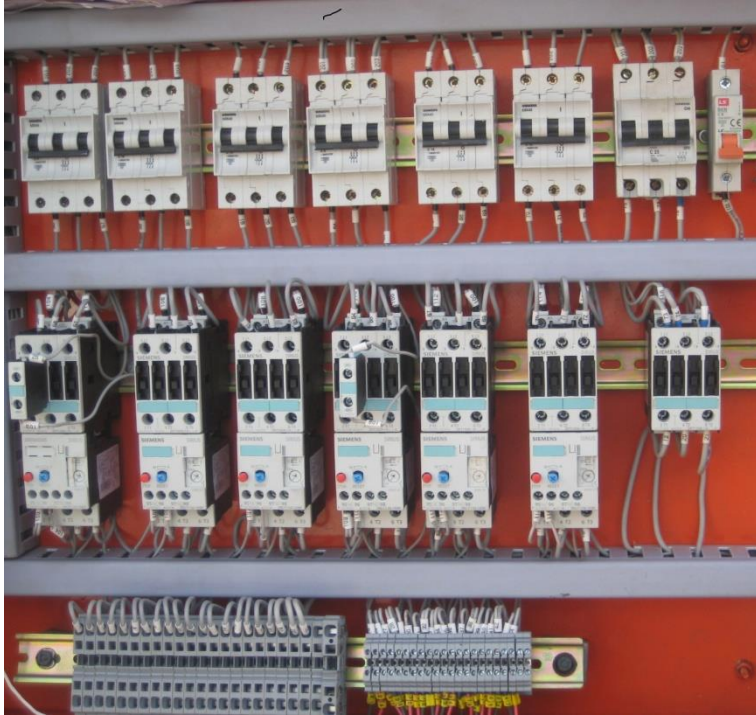
DESIGN SPECIFICATIONS:

- Medium to be Cooled: Air
- Outlet Temperature from chiller: $10^{\circ}\text{C} \pm 2^{\circ}\text{C}$.
- Capacity: 3 Tr. Or 5 TR.

Note: Evaporating Temperature = 7.5°C & Condensing Temperature = 35°C .

DESCRIPTION OF CHILLING PLANT

Sr. Item	Make
1. Compressor	Danfoss
2. Air -cooled condenser	Fine & Tube
	
3. Chiller	Shell & Tube
	
4. Chilled water pump	1 HP
5. Refrigeration Pipe	Copper
6. Refrigeration liquid Dryer	Danfoss
7. Expansion Valve	Danfoss
8. Thermostat	Temperature Controller with Indicator.
9. L. P. Switch	Danfoss
10. H.P. Switch	Danfoss
11. Hand shut off valve	Standard
12. Electrical Control Panel	



A. Over load Relay:	Siemens
B. Contactor:	Siemens
C. S.P.P.:	STANDARD
D. M.C.B.:	Siemens
13. Insulation of chiller	PUF
14. Structure Fame Work	G.I Structure p u Coated
15. Fan	EXHOUST
16. Water Tank	100liter. SS Tank with drain
17. Water flow switch	Mechanical

TECHNICAL SPECIFICATIONS:

1 System	hit exchanger (Chiller)
2 Model No.	ACSA
3 Flow Rate	4000 /hr
4 Inlet Temperature	15 °C ± 2°C
5 Outlet Temperature	12 °C ± 2°C
6 Refrigeration Load	3 Tr. Or 5 Tr.
7 Cooling Tower water	No requirement
8 Chiller type	Shell & Tub Hit exchanger
9 Condensers type	Fine & Tube
10 Refrigerant	R – 22
11 Refrigeration Compressor	Danfoss
12 Power consumptions	3Tr. = 3 Kw. Or 5 Tr = 5 Kw.

- 13 Control Automatic
- 14 Safety Interlocks
 - a. L P / H P Switch
 - b. Compressor and Pump overload trip
 - c. Digital temperature control
 - d. Reversible Phase locking system & S P P