



Specification

Flex Max Pivoting Boom Arm

The PlymoVent Flex Max Pivoting Boom shall be available in four lengths, 6 ft. **(FM-15)** 9 ft **(FM-25)**, 12 ft. **(FM-35)** and 16 ft. **(FM-45)**. The Flex Max will be comprised of three parts: A KUA ball bearing fume extraction arm, a pivoting boom arm with wall mounting bracket and interconnecting hard duct and flexible hose to connect from the wall bracket to the selected KUA arm.

The pivoting boom arm will have a heavy steel wall bracket with two spindle brackets welded to the frame. One spindle bracket will be reverse threaded, so that the spindle utilized to secure the pivoting boom will thread into the second bracket and for further reinforcement have a lock bolt securing the spindle to the wall mounting bracket.

The wall mounting bracket will also have a friction brake mechanism mounted just behind the supporting spindle for the boom. The boom brake will be adjustable utilizing two allen screws to provide the required force on the boom spindle to prevent sway of the boom once positioned by the operator.

The pivoting boom will be manufactured from tubular steel and will be supplied with an open 'U' bracket/channel which allows for a sliding trolley and cable hangers to move up and down the length of the boom. The trolley suspended from the 'U' bracket will have the capacity to carry (110 lbs).

At the end of the pivoting boom portion there will be a heavy butterfly mounting bracket that will be supplied in two pieces which bolt on via three bolts with locking nuts to assure positive attachment to the pivoting boom itself.

The butterfly mounting bracket will accept the mounting of the 7 ft. **(KUA-2)**, 10 ft. **(KUA-3)** and 14 ft. **(KUA-4)** PlymoVent fume extraction arm as specified below:

The 6.25 " diameter wall mounted ball bearing mounted extraction arm shall include a powder coated carbon steel mounting bracket with 3/8" bolt holes and will have a hanging flange mounted to the underside for mounting the articulated arm. The female spider pivot joint for connecting the machined steel shaft of the shoulder assembly houses two sets of ball bearing rollers for easy lateral movement of the extraction arm. The fume extraction arm is provided with an external sway adjustment friction pad set.

The internal support shoulder mechanism shall have an air-foil designed friction pad pivot and will have a tubular steel support brace which is bolted to the inner arm 20 gauge powder coated aluminum connection tube. An externally adjustable elbow joint will be constructed from polycarbonate and connects the inner arm tube to the outer arm tube. It shall be provided with an external friction pad set for each side of the elbow and will be held in place by an external adjustment knob on each side.

The universal wrist joint is supplied with a double plane double pivot to allow the hood to be angled 110 degrees throughout a 360 degree rotation. The hood collar and ring handle assembly will be comprised of a durable 60 degree spun aluminum hood housed with a safety mesh screen and will have an opening of 11.75 inch diameter.

The removable hood will be connected to the hood positioning collar through the use of an adjustable latch. The optional (SLE) flexible extension hose with magnetic hood may be connected to the arm's hood collar.

The hood will have the capacity to be retrofitted with a halogen light kit which also includes a switch set to be mounted to the side of the positioning collar. The positioning collar will be made of a polycarbonate material including a ratcheted manual shut-off damper.

All sections of the fume extraction arm will be interconnected by a 6.25 " diameter flame resistant double wall, neoprene coated woven polyamide with an external spring steel helix.

The KUA wall mounted ball bearing fume extraction arm shall have precise airflows and static pressure curves as tested in accordance with AMCA standard 500-D-98.