



ExtraButor™ HOLLOW FIBER MEMBRANE DEGAS MODULES

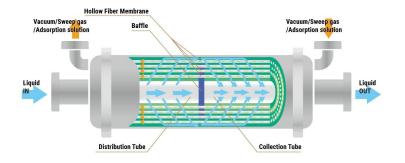
High-efficiency bubble and dissolved gas removal from inks using hollow fiber membrane

EXTRABUTOR™ GAS-LIQUID SEPARATION MEMBRANE CONTACTORS

BUBBLE AND DISSOLVED GAS REMOVAL FROM INKS USING HYDROPHOBIC HOLLOW FIBER MEMBRANE

ExtraButor™ gas-liquid separation membrane contactors use hydrophobic hollow fiber membrane technology to remove dissolved gases in inks. In typical operation, liquid (ink) to be degassed flows outside the hollow fiber. At the same time vacuum is pulled through the inside hollow fiber. Micro pores on the surface of the hydrophobic hollow fiber allow gas molecules to pass through, but reject liquid molecules. Under the force caused by vacuum, the gases dissolved in ink outside the hollow fiber moves continuously through the micropores to the inside hollow fiber, and then is taken away by vacuum. In this way, dissolved gases in ink are removed.

FEATURE	BENEFIT
High efficiency hollow fiber construction and design	High removal efficiency of bubbles and dissolved gases from ink.
Low pressure drop, large degassing area	Allows maximum flow rate. Single flow can satisfy multiple print heads.
Simple operation process	Quick start. Very short time for system stability.
Standard connections	Typical industry ink connections





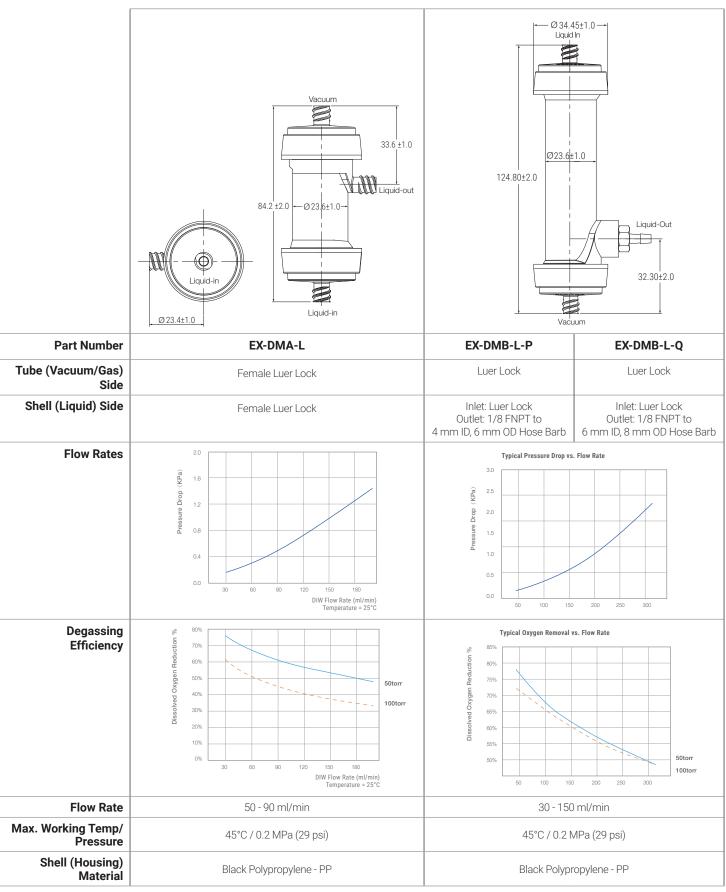
Typical Applications

- Degassing of bulk inks
- Degassing of inks prior to print head

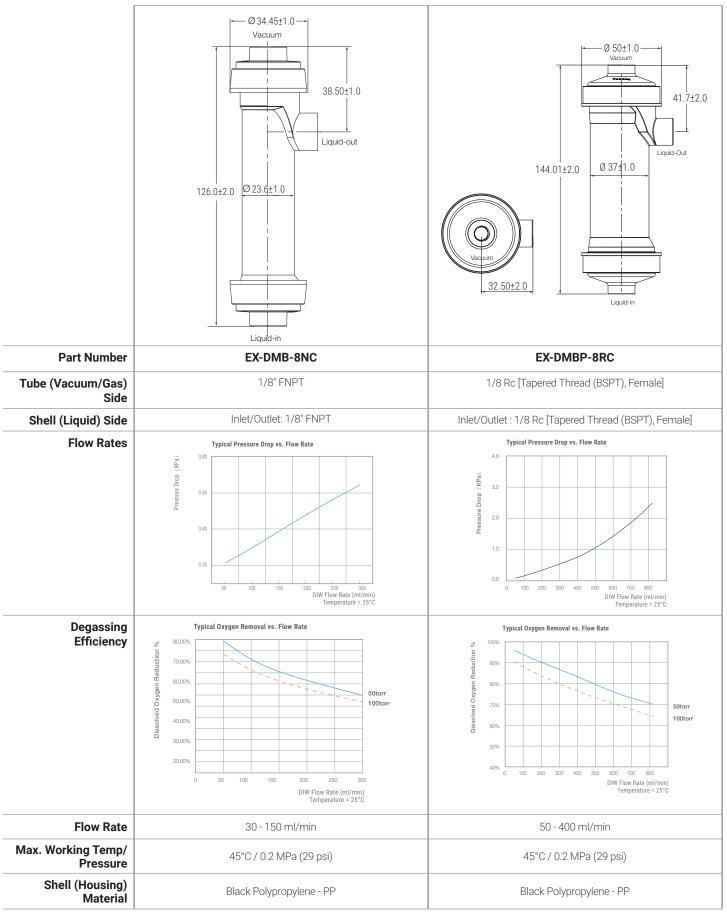
Degassing Systems

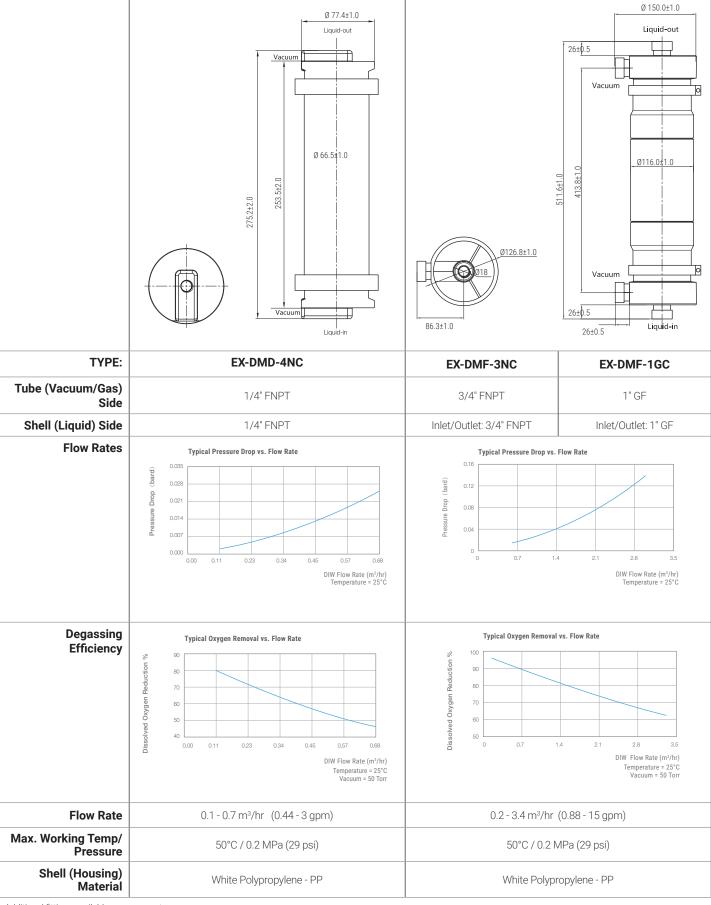
Cobetter offers a variety of degassings systems and custom degassing system carts and panels.
Contact your Banner representative for details.



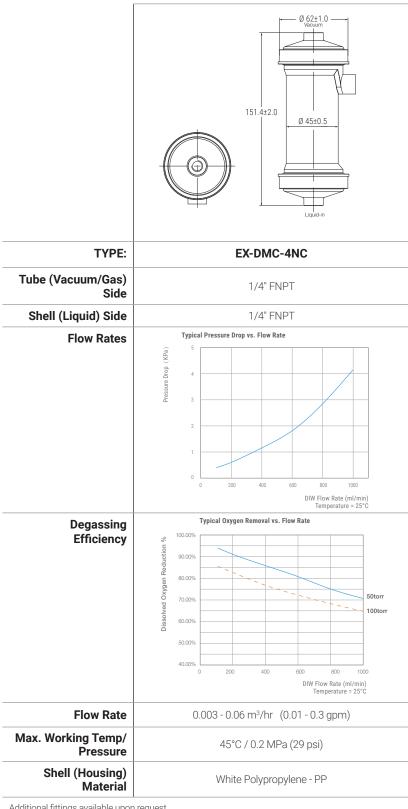


Additional fittings available upon request





Additional fittings available upon request



Additional fittings available upon request

