

BTU GENERATION OF SYSTEM

SYSTEM	EXTRACTOR	HYDRAULIC POWER UNIT	CHILLER	TOTAL TO ROOM
CDMH.5-1x-1f	2,853	28,167	60,861	91,881
CDMH.5-1x-2f	4,203	28,167	60,861	93,231
CDMH.5-2x-1f	2,853	28,167	60,861	91,881
CDMH.5-2x-2f	4,203	28,167	60,861	93,231
CDMH.10-1x-1f	3,218	28,167	92,428	123,813
CDMH.10-1x-2f	4,601	28,167	92,428	125,196
CDMH.10-2x-1f	3,218	28,167	92,428	123,813
CDMH.10-2x-2f	4,601	28,167	92,428	125,196
CDMH.20-1x-1f	3,728	28,167	133,684	165,579
CDMH.20-1x-2f	5,326	28,167	133,684	167,177
CDMH.20-2x-1f	3,728	28,167	133,684	165,579
CDMH.20-2x-2f	5,326	28,167	133,684	167,177
CDMH.50-1x-1f	5,986	28,167	191,204	225,357
CDMH.50-1x-2f	7,857	28,167	191,204	227,228
CDMH.50-2x-1f	5,986	28,167	191,204	225,357
CDMH.50-2x-2f	7,857	28,167	191,204	227,228
CDMH.100-1x-1f	5,986	35,148	191,204	232,338
CDMH.100-1x-2f	7,857	35,148	191,204	234,209
CDMH.100-2x-1f	7,358	35,148	467,632	510,138
CDMH.100-2x-2f		35,148	467,632	502,780
CDMH.200-1x-1f		35,148	828,087	863,235
CDMH.200-1x-2f		35,148	828,087	863,235
CDMH.200-2x-1f		35,148	828,087	863,235
CDMH.200-2x-2f		35,148	828,087	863,235

BTU Generation to room from extractor and support equipment (BTU/hr)

- All values calculated above assuming ambient air temperature of 22°C
- Extractor BTU calculated when solvent chamber is set to max (60°C)

It is important that the extraction machine is not placed in the same room as the support equipment. The table above shows the large amount of heat the support equipment will give off during run time. With this heat added to the room, the chiller and heater will have to work harder to maintain the chamber temperatures at the desired set point. This will cause more use of power and less efficient of an extraction. Please refer to the facility layout page (Pg 7 and 8) to reference the optimal layout for a successful extraction facility



CO₂ REQUIREMENTS

Model	Gas Used During Extraction	Gas Lost/Run	Supply
CDMH.5-1x-1f	19.42lb	1.7lb	150-200 lbs
CDMH.5-1x-2f	21.52lb	2.15lb	150-200 lbs
CDMH.5-2x-1f	29.42lb	2.94lb	250-300 lbs
CDMH.5-2x-2f	31.52lb	3.15lb	250-300 lbs
CDMH.10-1x-1f	29.42lb	2.94lb	250-300 lbs
CDMH.10-1x-2f	31.52lb	3.15lb	250-300 lbs
CDMH.10-2x-1f	49.42lb	4.95lb	250-300lbs
CDMH.10-2x-2f	51.52lb	5.15lb	250-300 lbs
CDMH.20-1x-1f	49.42lb	4.95lb	250-300 lbs
CDMH.20-1x-2f	51.52lb	5.15lb	250-300 lbs
CDMH.20-2X-1F	89.42lb	8.94lb	300-400 lbs
CDMH.20-2X-2F	91.52lb	9.15lb	300-400 lbs
CDMH.50-1X-1F	114.6lb	11.46lb	400-500 lbs
CDMH.50-1X-2F	121.9lb	12.19lb	400-500 lbs
CDMH.50-2X-1F	214.6lb	21.24lb	700-800 lbs
CDMH.50-2X-2F	221.9lb	22.19lb	700-800 lbs
CDMH.100-1X-1F	214.6lb	21.24lb	700-800 lbs
CDMH.100-1X-2F	221.9lb	22.19lb	700-800 lbs
CDMH.100-2X-1F	414.6lb	41.46lb	1500-1600 lbs
CDMH.100-2X-2F	421.9lb	41.19lb	1500-1600 lbs
CDMH.200-1X-1F	414.6lb	41.24lb	1500-1600 lbs
CDMH.200-1X-2F	421.9lb	41.19lb	1500-1600 lbs
CDMH.200-2X-1F	814.6lb	81.46lb	3500-4000 lbs
CDMH.200-2X-2F	821.9lb	82.19lb	3500-4000 lbs

CO₂ technical specifications for IES extraction machine

General Requirements

- Must be gaseous CO₂
- CO₂ cylinder must be able to operate at a minimum of 550psi
- Max flow rate is 25 scf/hr at 70°F
- Cylinders must be non-syphoned (No dip tube)
- CO₂ is beverage grade or higher quality, we recommend beverage grade
- Connection from tanks/manifold are CGA 320 male fitting

We recommend using 50-100lb high pressure CO₂ cylinders for machines all the way up to model CDMH.50-2x-1f. After this, CO₂ supply requirement is very large and using a microbulk supply system might be a better option. Please contact gas distributor for further information on microbulk systems

