

MRX 20L Xtractor Utility/Facility Setup Guide

The purpose of this document is to assist the MRX Xtractor customer in setting up their new extraction equipment and extraction facility. The technical requirements outlined in this document must be carefully followed to ensure that the extraction equipment functions properly and reliably. Failure to comply with these guidelines can result in system failure, shortened equipment lifetime, and lower extraction performance.

Please complete the listed items on the following checklists, and sign the document to confirm their completion. The document must be completed, signed, and returned to MRX Xtractors either by email or fax before an MRX service engineer will begin onsite system startup training with you. Once the finished document is received by MRX Xtractor personnel, your onsite training period will be promptly scheduled.

Standard Package Overview:

The typical MRX 20L Xtractor package is composed of three parts: the CP15 air compressor, the FIYRR ICE chiller/heater combination, and the FIYRR XTR-1 botanical extractor. It is not necessary, nor recommended to put all three system components in the same room. The FIYRR ICE chiller/heater and the CP15 air compressor produce a substantial amount of heat that will need to be removed by either air conditioning or ventilation. Ventilation is more typical. By placing these units in a separate mechanical room or attached structure, one can create a cooler/nicer environment to house the FIYRR Xtractor. The Xtractor itself has minimal cooling/ventilation and utility requirements.

Section 1: Air Compressor Installation

Overview:

The CP15 is a 15 HP air compressor. The manufacturer recommends a minimum room volume of 1000 cubic feet. The recommended ventilation rate is 2750 CFM to deal with heat load. The room should ideally have two openings: one within 12” of the floor, and another close to the ceiling. If air conditioning is used to maintain room temperature instead of ventilation, then please contact an HVAC specialist.

Dimensions/Weights/Utility Hookups:

Air Compressor: QRS_CP15

Weight & Dimensions: Weight = 770 Lbs Length = 76” Width = 24.5” Height = 58”

Minimum Spacing Requirements: Side spacing = 18”, Spacing above machine = 72”

Circuit Requirements: (460v 3-phase) MCA =40 A, FLA = 19.5 A
(230v 3-phase) MCA = 70 A, FLA = 39.3 A

Ventilation Requirements: Minimum Room Volume = 1000 ft³, Ventilation Rate = 2750 CFM
Minimum Openings = (2x) 30” Openings, Intake within 12” of floor.

Gross Heat Output: 13 Kw

Operating Temperature Range: 41F < Temperature < 104F

Checklist:

- The compressor is installed in a space with at least 18” of clearance on all sides
- There is at least 60” of clearance between the ceiling and the top of the air compressor
- The compressor room is equipped with adequate ventilation (2750 CFM) and/or adequate A.C.
- Temperature in the air compressor room is maintained between 5°C to 40°C (41°F-104°F)
- The compressor is professionally wired into a 40A 460v 3-phase circuit, or a 70A 230v 3-phase circuit
- The air compressor room contains at least 1000 cubic feet of air
- Relative humidity in the air compressor room is kept at/or below 70%
- The inline oil separator/air pressure regulator combination unit with a sight glass is installed

Plumbing and Electrical Installation and Layout Summary:

Overview:

The MRX client is responsible for complying with local code in all aspects of their installation. This may include but is not limited to air ventilation requirements, partitions between extractor location and other facilities, wiring/electrical code and inspections, HVAC installations/inspections, and plumbing installations/inspections. The client is responsible for providing a clean and hygienic extraction environment, as well as a level and sufficiently sturdy floor to support the proposed installation. The client is responsible for proper electrical installation of all the system components. The client is also responsible for properly connecting the heater/chiller and the extractor with the insulated hose provided by MRX Xtractors.

Checklist:

- All units must be installed on a clean, stable, and level surface
- Location must be free of excessive dust and particulates
- GD-4H 10KW chiller/heater is properly connected to the FIYRR 20L Xtractor with the insulated hoses provided by MRX Xtractors
- All of the system components are professionally wired and comply with the electrical ordinances
- The return and supply lines from the heater/chiller unit are properly configured/installed

Contractor Contact Information:

Purpose:

In order to make sure the installation proceeds as well as possible, an engineer from MRX Xtractors may wish to contact the electrical/HVAC/plumbing contractors working on your installation directly. Please provide the name and contact information of your chosen contractors below:

Contractor Name	Company	Field of Expertise/Trade	Phone Number	Email

Client Acknowledgement:

Purpose:

In signing this document, the client acknowledges that he/she has read the document and has completed the installation in compliance with the guidelines provided in this document. Failure to comply with the guidelines in this document can result in a delayed installation and higher installation costs. If an MRX service engineer is deployed to begin startup training and the installation does not meet the aforementioned guidelines, then a bill may be issued for MRX Xtractor personnel time.

Client Signature: _____

Date: _____