

Big Performance in a Small Footprint.

AdvansorFlex Distributed Systems



AdvansorFlex™ CO₂ refrigeration systems by Hillphoenix feature the next generation of *AdvansorFlex* technology, now with improved compression staging. And, as its name suggests, it's flexible. That's pretty big news for convenience stores, pharmacies, and other smaller retail establishments. *AdvansorFlex* has a more compact, smaller footprint that lets it fit easily, out of the way inside back rooms. Plus, a wider range of pre-engineered models means more solutions for more applications. An insulated, sound-resistant enclosure keeps noise down and shoppers uninterrupted as they shop. The enclosure is also weatherproof and can be installed outside just as easily if desired.

CO₂ refrigerant is a big deal.

CO₂ is the all-natural refrigerant at the heart of *AdvansorFlex*. It's plentiful, non-flammable, non-toxic to the environment, and inexpensive. Because it's natural, it's exempt from future legislation and taxation. And, because it won't deplete the ozone layer, it complies with DOE and EPA requirements. All good news for retailers worried about compliance for today and in the future.

ADVANSOR  *flex*

BIG

SAVINGS IS JUST THE BEGINNING.

On Startup

AdvansorFlex CO₂ provides significant savings, from initial installation through improved performance in everyday use. Startup refrigerant charge, compared to a traditional HFC system, is over 80% more economical.*

On Installation

Installation savings continue to add up! More economical, smaller copper sizes can be used with AdvansorFlex. Less insulation is required and less labor is needed than with a standard HFC system. Savings average 12% to 18%. Electrical installation is less expensive — a single point electrical connection is all that's required.

EMS controls integrate easily with existing building controllers. All wiring internal to the case (lights, anti-sweat, fans, defrost, sensors) is factory-wired from the case controller. Electrical design can plan on a single-wire feed that eliminates the need for additional wiring and electrical control boxes.

On Maintenance

Optimal case performance and energy usage is obtained as case controllers and electronic expansion valves (EEVs) control case temperature and superheat automatically without requiring annual

maintenance adjustments. When maintenance is required, it's in out-of-the-way areas and not on the store floor. Plus, AdvansorFlex changed location of the electrical panel and critical component for easier accessibility, service, and maintenance.

On Energy

System efficiency is based on ambient temperatures and can be enhanced by a cooler climate. All the while, case temperatures are kept optimum by case controllers and EEV's. Better performance leads to a reduction in product shrinkage so product stays fresher, longer. All of which has a positive impact on a store's profits.

* Based on a typical 2,000 pounds of R404A at \$6 per pound versus a CO₂ cost of \$1 per pound. Initial CO₂ cost of \$2,000 is an 83% savings over \$12,000 for HFC.



Variable Frequency Drive



High-pressure valve



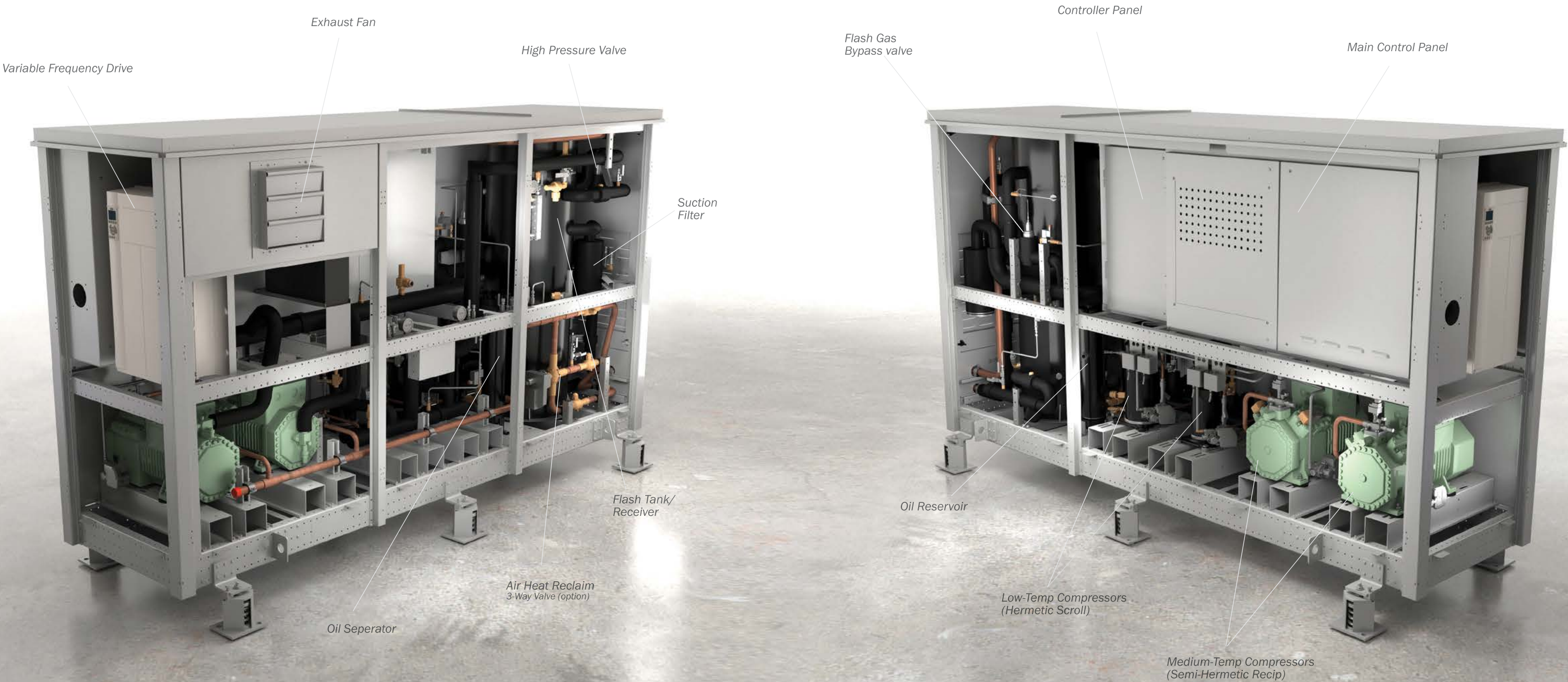
Medium-temp compressors



Main control panel



Low-temp compressors



Sustainability makes a big difference.

A CO₂-based refrigeration system says a lot about a company's commitment to a healthier world. Those that make it a corporate and even social responsibility will find that AdvansorFlex fits well within a corporation's sustainable mission statement. Using a natural refrigerant improves marketability with both a reduced carbon footprint and Total Equivalent Warming Impact.

Hillphoenix is the biggest name in CO₂ technology.

Numbers don't lie and Hillphoenix has them to spare. With over 14,000 global installations of CO₂ booster refrigeration projects, Hillphoenix is the acknowledged industry expert in CO₂ technology. AdvansorFlex CO₂ numbers grow even larger as it narrows the gap between HFC DX and CO₂ systems in smaller store applications.

Base Model Features:

- Huckbolted galvanized HSLA chassis.
- 208/230V, 460V, 575V electrical ratings.
- Bitzer semi-hermetic MT compressors.
- Copeland scroll LT compressors.
- Liquid line strainer.

- Suction filter/drier per group.
- Through door electrical disconnect.
- IEC contactors.
- Phase loss monitor with brownout protection.
- Dedicated CO₂ rack controller hardware from Emerson, Danfos, Carel and MicroThermo.
- Coalescing discharge oil separator.

Options:

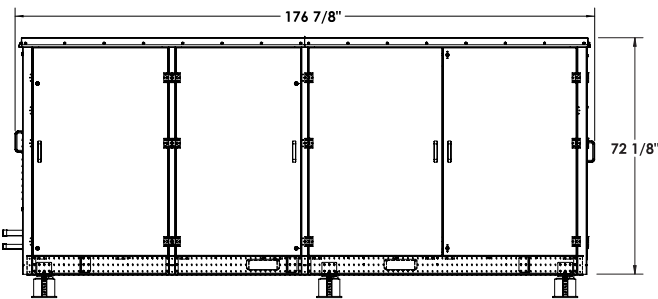
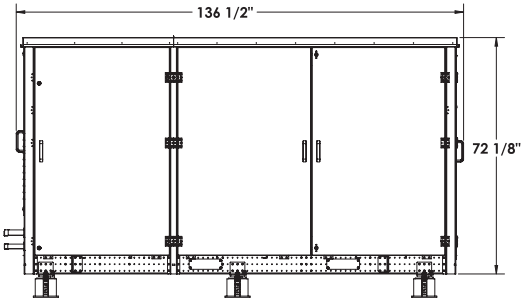
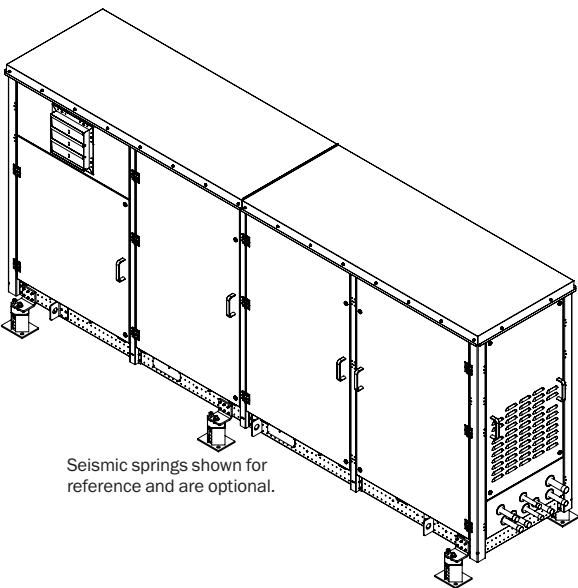
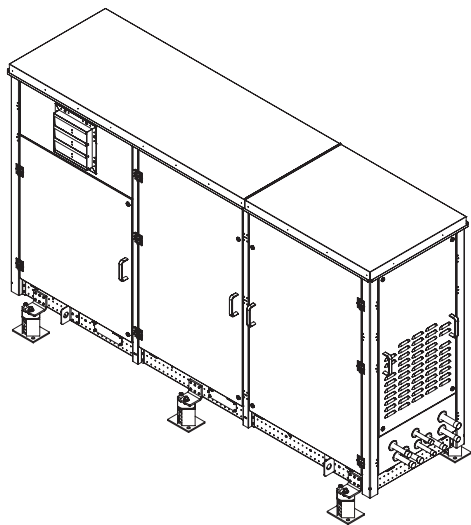
- Weatherproof enclosure.
- Cold weather package.
- Heat reclaim stubs and control valves.
- Emergency backup refrigeration unit to preserve refrigerant charge during power interruption.

Model Name	Low Temp Compressor Capacity (kbtuh)	Med Temp Compressor Capacity (kbtuh)	Chassis ²	Physical Characteristics					Amps @ 208v/3/60Hz	Mechanical Line Connections ³				
				Length (in)	Width (in)	Height (in)	Estimated Weight of Rack (lbs)	EstimatedWeight of Rack w/Doors (lbs)	MCA/MOPD ¹	Low-Temp Suction	Med-Temp Suction	To Gas Cooler	From Gas Cooler	Liquid Supply
FLX-2+0x2-M0066-L0060	60	66	2 x 2	132	35	72	4200	4800	149/200	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0107-L0060	60	107	2 x 2	132	35	72	4200	4800	191/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0132-L0060	60	132	2 x 2	132	35	72	4200	4800	192/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0152-L0060	60	152	2 x 2	132	35	72	4200	4800	204/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0170-L0060	60	170	2 x 2	132	35	72	4200	4800	220/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0095-L0070	70	95	2 x 2	132	35	72	4200	4800	195/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0120-L0070	70	120	2 x 2	132	35	72	4200	4800	196/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0139-L0070	70	139	2 x 2	132	35	72	4200	4800	208/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0158-L0070	70	158	2 x 2	132	35	72	4200	4800	224/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0082-L0080	80	82	2 x 2	132	35	72	4200	4800	197/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0107-L0080	80	107	2 x 2	132	35	72	4200	4800	198/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0127-L0080	80	127	2 x 2	132	35	72	4200	4800	210/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0145-L0080	80	145	2 x 2	132	35	72	4200	4800	226/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0112-L0107	107	112	2 x 2	132	35	72	4200	4800	241/350	7/8	7/8	1-1/8	7/8	1-1/8
FLX-2+0x2-M0190-L0060	60	190	2 x 2	132	35	72	4200	4800	232/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0222-L0060	60	222	2 x 2	132	35	72	4200	4800	261/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0264-L0060	60	264	2 x 2	132	35	72	4200	4800	294/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0177-L0070	70	177	2 x 2	132	35	72	4200	4800	236/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0210-L0070	70	210	2 x 2	132	35	72	4200	4800	265/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0251-L0070	70	251	2 x 2	132	35	72	4200	4800	298/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0165-L0080	80	165	2 x 2	132	35	72	4200	4800	238/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0197-L0080	80	197	2 x 2	132	35	72	4200	4800	267/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0238-L0080	80	238	2 x 2	132	35	72	4200	4800	300/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0131-L0107	107	131	2 x 2	132	35	72	4200	4800	253/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0164-L0107	107	164	2 x 2	132	35	72	4200	4800	282/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0206-L0107	107	206	2 x 2	132	35	72	4200	4800	315/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0119-L0117	117	119	2 x 2	132	35	72	4200	4800	255/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0151-L0117	117	151	2 x 2	132	35	72	4200	4800	284/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0193-L0117	117	193	2 x 2	132	35	72	4200	4800	317/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0140-L0127	127	140	2 x 2	132	35	72	4200	4800	286/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0181-L0127	127	181	2 x 2	132	35	72	4200	4800	319/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-2+0x2-M0168-L0138	138	168	2 x 2	132	35	72	4200	4800	323/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0137-L0060	60	137	3 x 2	172	35	72	5000	5600	197/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-3+0x2-M0154-L0060	60	154	3 x 2	172	35	72	5000	5600	237/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-3+0x2-M0125-L0070	70	125	3 x 2	172	35	72	5000	5600	201/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-3+0x2-M0142-L0070	70	142	3 x 2	172	35	72	5000	5600	241/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-3+0x2-M0113-L0080	80	113	3 x 2	172	35	72	5000	5600	203/250	7/8	7/8	1-1/8	7/8	1-1/8
FLX-3+0x2-M0129-L0080	80	129	3 x 2	172	35	72	5000	5600	243/300	7/8	7/8	1-1/8	7/8	1-1/8
FLX-3+0x2-M0121-L0107	107	121	3 x 2	172	35	72	5000	5600	259/350	7/8	7/8	1-1/8	7/8	1-1/8
FLX-3+0x2-M0179-L0060	60	179	3 x 2	172	35	72	5000	5600	238/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0199-L0060	60	199	3 x 2	172	35	72	5000	5600	250/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0224-L0060	60	224	3 x 2	172	35	72	5000	5600	252/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8

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				Length (in)	Width (in)	Height (in)	Estimated Weight of Rack (lbs)	EstimatedWeight of Rack w/Doors (lbs)	MCA/MOPD ¹	Low-Temp Suction	Med-Temp Suction	To Gas Cooler	From Gas Cooler	Liquid Supply
FLX-3+0x2-M0262-L0060	60	262	3 x 2	172	35	72	5000	5600	280/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0294-L0060	60	294	3 x 2	172	35	72	5000	5600	309/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0335-L0060	60	335	3 x 2	172	35	72	5000	5600	342/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0396-L0060	60	396	3 x 2	172	35	72	5000	5600	387/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0167-L0070	70	167	3 x 2	172	35	72	5000	5600	242/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0187-L0070	70	187	3 x 2	172	35	72	5000	5600	254/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0211-L0070	70	211	3 x 2	172	35	72	5000	5600	256/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0249-L0070	70	249	3 x 2	172	35	72	5000	5600	284/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0281-L0070	70	281	3 x 2	172	35	72	5000	5600	313/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0324-L0070	70	324	3 x 2	172	35	72	5000	5600	346/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0384-L0070	70	384	3 x 2	172	35	72	5000	5600	391/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0154-L0080	80	154	3 x 2	172	35	72	5000	5600	244/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0174-L0080	80	174	3 x 2	172	35	72	5000	5600	256/300	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0199-L0080	80	199	3 x 2	172	35	72	5000	5600	258/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0237-L0080	80	237	3 x 2	172	35	72	5000	5600	286/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0269-L0080	80	269	3 x 2	172	35	72	5000	5600	315/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0311-L0080	80	311	3 x 2	172	35	72	5000	5600	348/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0372-L0080	80	372	3 x 2	172	35	72	5000	5600	393/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0140-L0107	107	140	3 x 2	172	35	72	5000	5600	271/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0166-L0107	107	166	3 x 2	172	35	72	5000	5600	273/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0204-L0107	107	204	3 x 2	172	35	72	5000	5600	301/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0236-L0107	107	236	3 x 2	172	35	72	5000	5600	330/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0278-L0107	107	278	3 x 2	172	35	72	5000	5600	363/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0338-L0107	107	338	3 x 2	172	35	72	5000	5600	408/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0128-L0117	117	128	3 x 2	172	35	72	5000	5600	273/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0152-L0117	117	152	3 x 2	172	35	72	5000	5600	275/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0190-L0117	117	190	3 x 2	172	35	72	5000	5600	303/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0223-L0117	117	223	3 x 2	172	35	72	5000	5600	332/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0265-L0117	117	265	3 x 2	172	35	72	5000	5600	365/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0325-L0117	117	325	3 x 2	172	35	72	5000	5600	410/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0141-L0127	127	141	3 x 2	172	35	72	5000	5600	277/350	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0180-L0127	127	180	3 x 2	172	35	72	5000	5600	305/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0212-L0127	127	212	3 x 2	172	35	72	5000	5600	334/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0252-L0127	127	252	3 x 2	172	35	72	5000	5600	367/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0314-L0127	127	314	3 x 2	172	35	72	5000	5600	412/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0166-L0138	138	166	3 x 2	172	35	72	5000	5600	309/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0198-L0138	138	198	3 x 2	172	35	72	5000	5600	338/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0240-L0138	138	240	3 x 2	172	35	72	5000	5600	371/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0301-L0138	138	301	3 x 2	172	35	72	5000	5600	416/500	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0165-L0165	165	165	3 x 2	172	35	72	5000	5600	349/400	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0206-L0165	165	206	3 x 2	172	35	72	5000	5600	382/450	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8
FLX-3+0x2-M0266-L0165	165	266	3 x 2	172	35	72	5000	5600	427/500	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8

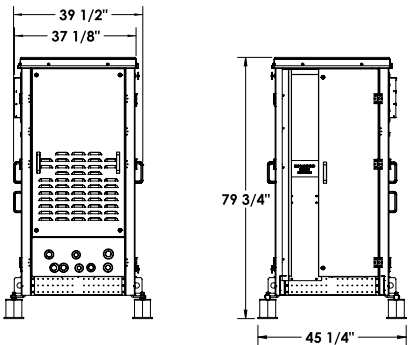
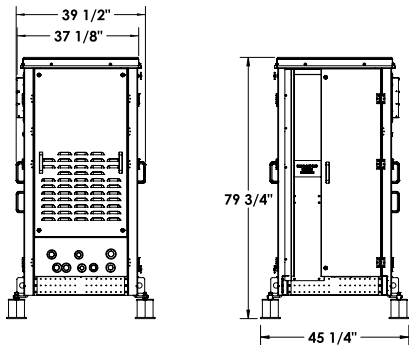
AdvansorFlex — 2x2 Unit

AdvansorFlex — 3x2 Unit



FRONT VIEW

FRONT VIEW



SIDE VIEW

SIDE VIEW

AdvansorFlex	Estimated Weight*	Dimensions
2x2 Unit	4200-4800 lbs	136-1/2"W x 39-1/2"D x 72-1/8"H
3x2 Unit	5000-5600 lbs	176-7/8"W x 39-1/2"D x 72-1/8"H

* Depending on capacity and compressor selections.

Please consult Hillphoenix Engineering Reference Manual for dimensions, plan views and technical specifications. Specifications are subject to change without notice. Certified to UL 471 and ANSI/NSF standard 7.

Designed for optimal performance in store environments where temperatures and humidity do not exceed 75°F and 55%R.H. Rack is certified to UL 1995. Update.

Hillphoenix

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hillphoenix.com

