

CO2 System Options

System Type	Description
Self-contained CO2 Refrigeration	<ul style="list-style-type: none"> • blast freezer, low or medium temperature • dx or liquid-overfeed, self-contained
Low-temperature Cascade	<ul style="list-style-type: none"> • sub-critical operation, dx or liquid overfeed • heat transferred to central ammonia plant, or ammonia/ HFC chiller
Medium-temperature Cascade	<ul style="list-style-type: none"> • sub-critical operation, dx or liquid overfeed • heat transferred to central ammonia plant, or ammonia/ HFC chiller

Note: These systems can be added to an existing ammonia plant, or used in conjunction with a transcritical CO2 central rack system.

Refrigerated Air Handler Options

System Type	Description
Self-contained Ultra-Low Charge Ammonia [HillPhoenix_NXTCool]	<ul style="list-style-type: none"> • Ultra Low Charge, ~ 8 oz per ton of refrigeration • Self-contained, water cooled condenser
Self-contained Transcritical CO2 Air Handler (no-charge-ammonia)	<ul style="list-style-type: none"> • Similar construction to NXTCool with Ammonia replaced by Transcritical CO2 • Less expensive option
CO2 Unit Cooler	<ul style="list-style-type: none"> • Several manufacturer's offer CO2 unit coolers (co2 refrigerant coil), with CO2 supplied from a central plant, or CO2 cascade
CO2 Unit Cooler, <i>Hygienic</i>	<ul style="list-style-type: none"> • Several manufacturers of hygienic air-handlers offer equipment with CO2 refrigeration coils