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magazine

DECEMBER 2023



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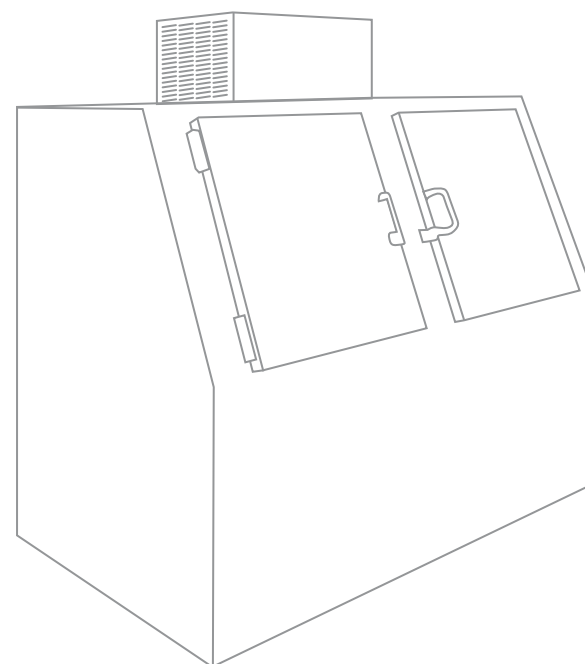
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Let Your Staff Epitomize Your Mission Statement

Merry Christmas and Happy Holidays.

This was a good year for the ice industry. Despite outrageous fuel costs and driver challenges, your product remains a staple among consumers.

I've seen more ice merchandisers outside of big box retailers, the last few years, making total sense of an open market: contractors on the go. Especially during the warmer months, I've noticed sales consisting of ice and coolers of water/power drinks, on the rise at The Home Depot. Home City ice services the Leer box, so I get to talk to the drivers if I'm on shift at the same time.

The drivers have their timing down to just a few minutes. They are conscientious and well presented for the company they work for.

I thought to myself how right it is when your staff epitomizes your mission statement.

In 2024, let's remember to represent our industry in the best possible way. It is, after all, our bread and butter, and worth being committed to.

Let's work toward collective unity and not exclusion, openness, friendliness and a willingness to keep our industry moving forward. See you next year! Thank you for your support all these year.

Mary

Mary Yopp Cronley
Editor, Refrigeration Magazine



"In 2024, let's remember to represent our industry in the best possible way. It is, after all, our bread and butter, and worth being committed to."



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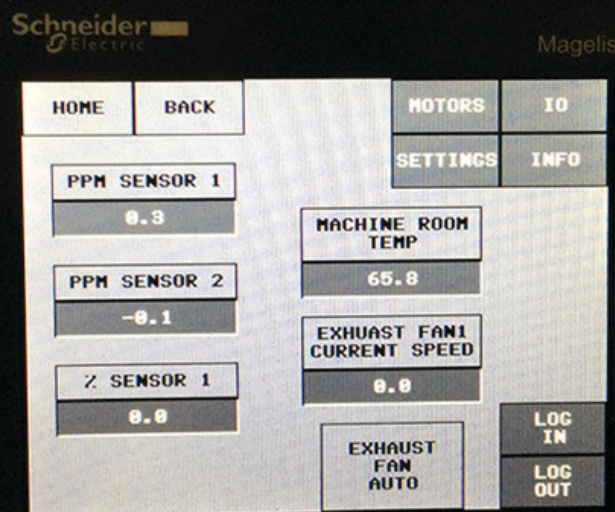
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Automatic ICE™ SYSTEMS

AMMONIA DETECTION AND VENTILATION



By Thomas Shade
Mechanical Engineer, Automatic ICE™ Systems

AMMONIA DETECTION AND VENTILATION

Ammonia machinery rooms are required to have ammonia ventilation and detection systems by code. These systems must detect low-level leaks at 25PPM and provide an audio and visual alarm at a monitored location. When a concentration of 150 PPM or above is detected, the system must provide an audio and visual alarm, and automatically turn on the emergency ventilation system. If a high level of 40,000 PPM is detected, the system must shut down all rotating equipment in the machinery room and activate the emergency ventilation system.



Automatic ICE™ Systems has developed our ADV system, which stands for Ammonia Detection and Ventilation. This package includes a stand-alone control panel with HMI, all required ammonia detectors, emergency ventilation fans & louvers, and King & Queen solenoid valves installed in the refrigeration system. This system will detect ammonia concentrations at all required levels and automatically enact the appropriate response. In addition to the equipment and controls, this system includes audio and visual alarms at each machinery room entrance and a door monitor that displays the ammonia PPM outside the door so operators can see the room condition before entering. The system will shut down all equipment inside the machinery room when a high concentration is reached and close King and Queen valves in the ammonia system to hold the ammonia charge in the high-pressure receiver or HPR.

First, we need to define packaged ice makers. A packaged ice maker, like a Vogt P18XT, P24A, and P34A are stand-alone ice making systems. They are built on a frame that contains the compressor, water-cooled condenser, refrigerant piping, receiver, ice freezer, wiring, and a control panel. They are essentially plug-and-play. Once onsite, water and electrical are connected to the package, and the cooling tower and water pump are installed and piped, the ice maker is ready to run.



An emergency ventilation system should consist of:

Emergency Ventilation

- ▶ Rooftop upblast fans
- ▶ Minimum discharge velocity > 2,500 feet per second
- ▶ Minimum 30 air changes per hour
- ▶ Non-sparking fan blades
- ▶ Fail-open air intake louvers

Temperature Control Ventilation

- ▶ Done with emergency ventilation fans (VFD driven)
- ▶ Pulls in ambient outside air to keep room below 104°F (typical maximum allowable temperature for electrical components)

Occupancy Ventilation

- ▶ Provides occupancy ventilation as required by mechanical code



AMMONIA OVERPRESSURE PROTECTION

AIS provides ammonia relief system design and calculations that meet all code requirements. The ammonia relief system must provide overpressure protection for all pressure vessels in the system to relieve excess pressure due to a fire or other abnormal conditions. Detailed calculations are required to determine the required discharge capacity for each pressure vessel, proper valve selection, and proper piping to ensure the maximum allowable backpressure allowance is not exceeded. The EPA can audit a plant at any time and requests to see a copy of the relief system calculation.





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Relief system requirements include:

- ▶ Vapor relief valves shall be connected above the highest anticipated liquid ammonia level
- ▶ The set pressure for a pressure relief device shall not exceed the design pressure of the equipment protected
- ▶ One or more dual pressure relief devices installed with a three-way valve to allow testing and repair
- ▶ Pressure relief device capacity determination due to overpressure due to external fire to prevent catastrophic failure
- ▶ Piping for relief vapor shall be determined based on the sum of the discharge capacities of all relief devices that are expected to discharge simultaneously
- ▶ Maximum length of discharge piping installed on the outlet of pressure relief devices discharging to the atmosphere as a function of allowable pressure drop
- ▶ The calculation of backpressure due to the discharge piping at the outlet pressure relief devices shall be determined using Equation 15.5.1.1.1(1) or 15.5.1.1.1(2) detailed in ANSI/IIAR 2-2021
- ▶ Pressure relief devices shall discharge vapor directly to the atmosphere outdoors
- ▶ Discharge piping shall terminate not less than 15ft above grade and not less than 20ft from windows, doors, and ventilation intakes. Termination of discharge shall be directed upward and arranged to avoid spraying ammonia on persons in the vicinity

AMMONIA SIGNAGE, LABELS, AND PIPE MARKINGS

Ammonia refrigeration systems are required by code to have proper signage, labels, and pipe markings. These markings must be uniquely labeled in a manner consistent with the system documentation. Automatic Ice provides these with all new plants and can retrofit existing plants upon request. Refrigeration schematics, called P&IDs, detail piping service, equipment numbers, valve tags, and emergency shut-off valves. All piping is provided with a marker that lists the refrigerant, the physical state of the ammonia as either vapor or liquid, the relative pressure level as high or low, pipe service, and the direction of flow. These allow operators and emergency responders to identify system components accurately and quickly. Each valve in the system is given a tag with a unique number corresponding to the P&IDs. This allows the plant to write standard operating procedures, or SOPs, for routine and preventative maintenance items.



Machinery room principle and auxiliary doors are provided with the required signage indicating the Refrigeration Machinery Room, Authorized Personnel Only, Caution – Ammonia R-717, Caution – Eye and Ear Protection Required, and the NFPA ammonia fire diamond. In addition to the door signage audio and visual alarms for the emergency detection and ventilation system are provided.



“Ammonia refrigeration systems are required by code to have proper signage, labels, and pipe markings. These markings must be uniquely labeled in a manner consistent with the system documentation.”

AMMONIA SYSTEM DESIGN

Automatic ICE™ Systems designs every ammonia system to comply with IIAR standards. This includes equipment isolation valves and pump-out valves for equipment maintenance, purge valves for removing non-condensables, oil pots to safely remove oil, and King and Queen valves for automatic isolation of the HPR in case of an ammonia leak. The accumulator vessel is equipped with a level probe as well as a high-level float switch for compressor protection. The AIS control system monitors the exact liquid level with the level probe, and can safely shut down the system before the liquid can reach the high-level cutout float switch. This allows operators to restart the system and troubleshoot while protecting the compressors.

AIS also uses a motorized control valve for the equalizer/bypass on the main suction stop valve. This allows the ice maker to bleed pressure off slowly after defrost, which prevents unnecessary liquid carryover to the accumulator.

If your company is considering growing its ice production platform, AIS can help you make the best purchasing decisions to better meet your needs today and as your company grows into the future. [RM](#)



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TUBULAR

Dude

By Mike Landino



Benny put the phone down. "Excellent! Charlie said yes. All right! Follow me, big boy." Tubular Dude lumbered behind his friend out to the back parking lot of the ice plant. A well-used ice transport unit, more of a resting spot for southbound birds than having served any practical use, sat mounted on an old trailer parked in the field behind the building. "We haven't used this forever."

"So, what are we going to do with it?"

"It's gonna be your mobile hideaway. Charlie said I could borrow it for a while. Check it out, dude." Benny opened the rear doors, revealing an interior a little less than five feet wide and not quite nine feet long. "Yeah, I know, kinda small isn't it. When we used it, we could put two pallets of ice in it; took it to special events and that sort of thing."

T.D. scratched his head. Ice shavings fell lazily to the ground. A sheepish grin formed and then a frown. "I'm causing you problems, aren't I?"

Benny shut the two doors and put his arm around his buddy's massive shoulders. "T.D., my man. You're my friend. Hell, you might have saved my life. You certainly saved me a beating." He looked into Tubular Dude's concerned eyes. Ice, pale blue round cubes stared back "Come on, let's hook the trailer to my truck and plug er in. Let's see if she still works."

Sharon Petre asked the question again. "Officer Smotes, is your department planning on capturing this man of ice, or whatever you want to call him?"

Henry stifled a grin and looked to his sergeant and captain.

"Miss," Captain Gaines said softly, gesturing to the mob scene outside the window of his office, "Besides the legitimate press," he said, pausing for effect, "We have every reporter from every rag magazine, tabloid, and freak sheet, roaming the streets of my town adding to the chaos. There are religious groups, the paranormal nuts, U.F.O. researchers, and representatives from hundreds of law enforcement agency in the country lined up requesting interviews with my . . ."

"You're not answering my question," Sharon persisted.

"Captain Gaines sighed. The young lady was pretty and though she was a serious pain in the butt., the tabloid reporter was a welcome distraction brief from the ruckus outside his doors.

Too bad she's a reporter... with a big zit on her chin.

"Miss Petre, at this point, we can no longer deny his existence. Are we interested in who he is; yes, we are. Has he, this man of ice, done anything wrong? No." The captain

coughed. On cue, Henry Smotes stood with his sergeant. "No, Miss Petre, there are no plans to capture him. But," the captain added with a grin, "would I like to meet him? Hell, yes!"

The Captain glanced at the wall clock and then to the commotion outside his window. "Ok; I think we're done here."

The reporter from *National Curiosity Magazine* protested loudly as she was escorted to the door.

Bob Jacobs looked at his watch and sighed. The name search on Always Nice Ice Company turned up nothing too much out of the ordinary. A young employee had not shown up for work a few years back and was reported missing by his sister, but the investigation was short-lived as the sister revealed that her brother had talked a lot about taking a year off to travel the country. Other than that, it was just another business trying to make a living. The owner of the plant, Charles Glenn, was squeaky clean, and a leading citizen. The only lead he had about the arrival of Tubular Dude, and a strong one at that, was Benjamin Blythe. As of yet, Bob had not caught up with him.

But I will!

Bob looked out the window of the small coffee shop. The Black Angus restaurant was across the street.

Damn! It's a circus out there.

The town's population had grown by over two thousand people in the last twenty-four hours. Every hotel, motel and boarding house placed no vacancy signs within the first two hours. Every curb was lined with news vans. Handsome, male news anchors in expensive suits, sporting highly coiffured hair styles, crowded the streets beside several young and beautiful news anchorwomen. Competing with them for the attention of the townspeople who witnessed the miracle rescue were a vast array of hosts from almost every talk show on television or radio. It's a story in itself, thought Bob as he waited. He was quite convinced that that the reporter, if he could call her that, for *Curiosity Magazine* would make this story for all it was worth; and he had to admit, a great story it is. A wide grin formed. Sharon Petre. . . if she looks half as good as she sounds . . .

Another fender-bender caught his attention. He watched the scene as he sipped his coffee. A minor accident, it was one of many that had occurred outside the Black Angus in the last hour. The restaurant, a favorite gathering spot for many of the townspeople, had become Tubular Dude Central. Private citizens from surrounding areas flooded the town with one goal in mind, to see The Man Of Ice.

"So, any information you obtain goes right to me. Deal?" The anchor for CNN slid the envelope over to his informant. The heavy-set man wiped bar-b-queue sauce-soaked hands on dirty overalls and greedily grabbed the envelope. Bulging eyes quickly reviewed the contents.

A thousand dollars! Now, this is what I'm talking about. A meal at Black Angus, and, some real money. Better than that smuck from the local paper.

"Deal."

"Do you think you'll get to see him, daddy? Can we see him?"

"Can I see him first, daddy?"

Henry Smotes laughed as his children peppered him with questions about Tubular Dude. His wife, Cindy, giggled girlishly at the kids' excitement about the man made of ice. She too bubbled with questions. She would save most of them for when the kids went to bed.

The small interior of the ice transport unit was confining. T.D. sat on a small, but sturdy wooden chair trying to maintain his balance. Fear and confusion gripped him. His concern, more for his friend than himself, increased with every bump in the road.

Benny turned left onto a dirt path. Five minutes later he saw his grandpa, Clarence, standing out in front of his barn. The doors to the



large red, wooden building were opened wide. Benny backed the refrigerated ice transport unit in.

Bob stood instantly.

Damn!

A lady with reddish-blond hair and the most gorgeous hazel-green eyes walked towards him, hand extended. “Hello. Bob Jacobs?”

Don’t let it show, boy.

“Hello, Miss Petre.” He extended his hand.

“Call me Sharon; please.”

“Hello, Sharon.”

The reporter from National Curiosity Magazine, smiled brightly as she looked at Bob and then to her right hand. She arched an eyebrow and blushed. “I’ve only got two of these, Bob.”

“Huh, oh, excuse me.” Bob swallowed hard as he looked into her eyes. He felt light-headed as his hand in hers, transmitted heat throughout his body. He quickly released her hand and felt embarrassment light up his face. He awkwardly pulled out a chair for her.

Sharon sat down and pulled out her notepad. *He’s kinda cute.* She placed a hand to her chin in an effort to cover the pimple. Damn it.

“So, what can I do for you, Miss . . . I mean, Sharon.” Tell me, tell me, tell me.

“Well . . .” You can tell me how you got so cute. Sharon reviewed her note pad for a minute. *Damn, Sharon. What are you, in high school?* “Well, Bob, I liked to know everything you have on this man of ice. Tubular Dude.”

“Are ya ok now, grandpa?” No response.

Benny and T.D. sat on baled hay as they waited for Clarence Blythe to complete his “walk.” It was more of a stop, go, stumble, turn around and look again, go . . .

Grandpa, though fully warned by Benny on the phone, could not come to grips with what he saw. At first, upon seeing the man of ice walking out the back of the small ice transport unit, he backed himself into the barn wall and fell on his rear. Quivering wrinkled and liver-spotted hands flew to his face, as if that would change what he saw. It took some time, but Clarence did get up. His only words before the “walk,” uttered just above a whisper was, “I’ll be back, boy.”

Grandpa completed his fourth circuit around the barn. He limped slightly as a result of a farming accident but the slowness of his gait was less from a bad leg or his age, but more so, a mind filled with thoughts that were so rapid, so terror-filled, the walk was more of a forced motion, propelled out of sheer will power to keep moving. How could this be? He was old but not old enough to have hallucinations, was he?

T.D. leaned against an antique John Deere tractor wearing the cowboy hat Benny brought out from the house. He had his head down. *I’m a freak. I’ve frightened Benny’s grandpa. Tears formed and dropped to the ground. What am I?*

Benny patted T.D. on the shoulder and walked towards his grandfather, talking softly. “It’s ok, gramps.” Clarence stood his distance, twenty feet away. His face, weathered from too many hours in the Colorado sun, gaunt and tanned, stared at the Man of Ice. “Boy, this the craziest thing I’ve ever seen. I thought you

were nuts listening to ya on the phone. Figured you were trying to pull a fast one on your old gramps.”

He held out his hand and slowly and cautiously stepped towards T.D. “My name is Clarence T. Blythe.”

T.D. glanced up into the old man’s steel blue eyes. He saw fear, but also a hint of a smile and a softening of the leathery face. He took the hand and shook it. “Hello, Clarence.”

Clarence peered into the barn evaluating the small transport unit. “That’s a pretty tiny place to be holed up in, T.D. I think we can do better.”

“Whatta ya mean, gramps?” Benny asked.

The old man smiled. “Come on, T.D. Let me show you around.” He put his arm around the massive shoulders, and led his new friend into the barn.

Cindy Smotes turned to her husband. Past midnight, Henry couldn’t sleep. “Still thinking about him?”

“I cannot get him out of my head. You saw the picture. He saved that mother and daughter. His expressions, they were so human. He looked embarrassed as he held them above the smoldering wreck. Honey . . . the press will search every nook and cranny until they find him. They will lie, make up, and exaggerate every detail, real or not. They don’t care. Man . . .”

“Let’s go to sleep, Henry. We can talk in the morning.

Three hours later, his wife’s soft breathing finally lured him to sleep.

RM

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