

# Baby, it's warm outside: Cold **Chain Works to Keep Its Cool** in these Overheated Times

### By John Jeter

Oleg Yanchyk likes his ice cream. "Strawberry, of course," he says. But when the supply chain gets overheated and churns too slowly, the sweet

"Yeah, man, it happens. I

a refrigerator unit loses its

cool; drivers-or, more likely, in these days of driver shortages, a lack of them-don't have the expertise to handle low-temp loads, the know-how that isn't



sales of the dessert and frozen novelties (think fudgesiclesyuuum!) jumped 24% from March through May 2021 over the same period in 2019, according to the International Dairy Foods Association.

customers. That's about

standard industrywide, he says.

is looking at a pace of growth

hardly below zero. In terms of

just ice cream-and Yanchyk

is among Americans who

each consume an average of

23 gallons of ice cream a year-

That sector, C-suiters say,

The association, citing a Fortune Business Insights report, says the global ice cream market is expected to top \$92 billion in 2027, up from nearly \$71 billion-that is, in "less than a decade due to the world's craving for ice cream." (That doesn't count inflation. In February, The Globe and Mail quoted Ashley Chapman, vice president of the eponymous Canadian ice cream maker, as saying costs

are rising around 13%.) And that's just ice cream.

#### It's about Flexibility

Americold Logistics, Mathew Moore sees several drivers for growth, especially in a rumbling appetite for cold storage.

Consumers are flexing increasing influence in the food chain, so "having a flexible cold storage network that can adapt to changes in demand will be necessary," says Moore, who is Vice President, Global Market Strategy at the temperaturecontrolled warehousing and transportation company.

In addition, he says that consumers' rising hunger for healthy, fresh foods "requires a more nimble and efficient cold chain to ensure products move quickly and remain at the right temperatures."

Finally, he says, new and improved infrastructure will be required to handle that demand.

Maersk, for

### **Check Out Cold Chain's Cool New Technology**

Alas, the bygone days of the milkman. Remember waking up to those deliveries of fresh milk in glass bottles? Well, times have changed and so has the transport of perishable cargoes, from milk to microwavable meals and from fresh veggies to

Envirotainer most recently introduced two technological innovations, including Releye RAP and RLP containers, with more capacity and improved Chief Business Development Officer. The company, which specializes in pharmaceuticals, develops and manufactures

The RAP format can accommodate five Europeansized and four U.S.-sized pallets with temperatures as low as minus 25.6 degrees Fahrenheit and can operate autonomously for 170 hours without recharging, he says.

Another Envirotainer "ultra-low cold chain." features the company's new dry-ice platform, CryoSure, Capable of maintaining minus 94-degree temps for three weeks, the new product meets the growing demand for cell and

medicine and biospecimens he says.

Hapag-Lloyd, meanwhile. launched a reefer container tracking tool in 2020; its Hapag-Lloyd LIVE, offering LIVE Basic and LIVE Plus. The former monitors all perishable goods that demand temperature controls for such items as pharmaceuticals, dairy, frozen fish, chocolate and the like, LIVE Plus monitors all commodities requiring cold treatment.

"New and enhanced digital solutions play a major role, especially since the beginning of the pandemic," says Sarah Niche Products at the maritime company whose specialties include refrigerated transport.

Greg Tuthill, COO at SeaCube Containers, echoes her comments, noting that telematics and internetof-things technologies are additionally "having a significant and positive impact."

He adds "Controlled focus, which Linnér calls atmosphere technology is also advancing, allowing reefer shippers to source from areas with much longer transit times and also affording longer product preservation as a result of fresh fruits and vegetable ripening cycles to be delayed."







it happens quite a bit," says Yanchyk, CIO and Co-Founder of Sleek Technologies, which provides AI and other solutions that connect shippers with

He names just a few scenarios that can create a cold chain meltdown: a truck breaks down; its business with shipping

mean, you'd be surprised, but haul; and, lest we forget, the global supply chain's chronic congestion.

> Melted products, of course, are "outside the norm, but that's something that's part of our service offering," he says of Sleek, which counts reefer transport as roughly 30% of

one, sees that.





## COOLCHAIN\\

### Freighter full of salmon

With seven Qatar Airways passenger flights and six B777 freighter services each week, the and the airline's cargo capacity out of Scandinavia, is salmon.

Iceland and Faroe Island (Denmark) also see some Airline Award is the only award seafood traffic which includes where seafood farmers are the live king crabs, trout, and other ones judging the various airlines seafood. However, the bulk of in terms of how they handle the salmon business originates perishables, the service offered. in Norway. At 1.3 million tonnes their quality and proactiveness. of salmon exported in 2021 (the among other factors," explains country's best year to date), and Carl Christian Skage, Managing a segment value of EUR 8.57 Director of NordicGSA in billion/USD 9.28 billion, Norway Norway. "Our priorities are is by far the world's number one ensuring commodity-specific

delicate cargo commodity for sustainability, which is a as it requires skilled, hygienic decisive factor, particularly controlled conditions and, above we have a program in place its final destination," says Rob generated by our operations Veltman, Vice President Cargo here in Norway, including Europe at Qatar Airways. "Qatar the trucking to our hub, is Airways Cargo not only offers compensated by Norway's a global network of over 150 largest BIO-carbon capture stations, we also reacted quickly initiative, Trefadder, which to support Norwegian seafood plants trees on our behalf." exporters when the pandemic led to a dramatic decrease in offers close to 850 tonnes of available belly capacity."

freighters to the Norwegian Norwegian salmon via Doha's seafood market, including state-of-the-art perishable Harstad-Narvik Airport in center, to destinations across Evenes and Bodø Airport Asia: Seoul/South Korea (ICN), in Northern Norway, Oatar Bangkok/Thailand Airways Cargo significantly Shanghai/China (PVG), Osaka/ increased its capacity to the Japan (KIX), Narita/Japan (NRT), Norwegian market in 2021 when Hong Kong (HKG), Guangzhou/ it was needed the most.

above and beyond to meet Qatar (DOH), and Riyadh/Saudi the needs of our customers, resulting in record breaking on a single lower deck 777 passenger flight," Veltman says.

Consequently, Qatar Airways Cargo transported more than 46,000 tonnes of Norwegian seafood last year, the highest result yet.

"The airline transports more than 125 tonnes of seafood from Oslo every single day,"he adds. "Norwegian salmon is a delicacy that is enjoyed worldwide, and Oatar Airways Cargo ensures that it reaches restaurants and supermarkets around the world in the same fresh state that it was originally sent in."

Qatar Airways Cargo,

together with its Norwegian GSA partner, ECS Group subsidiary. NordicGSA, are air cargo experts Oslo-Doha route is well served, when it comes to seafood logistics. They were awarded well stocked. Of that freight, 95% DB Schenker's prestigious of all perishable seafood (PES) Seafood Airline Award for three on board Qatar Airways flights consecutive years: 2018, 2019, and 2020.

"The DB Schenker Seafood service, temperature-control, "Salmon is a particularly and above all, an awareness

Qatar Airways Cargo cargo capacity each week By introducing passenger from Norway, transporting (BKK) China (CAN); and the Middle East: Dubai/UAE (DXB), Doha/



Shipments of salmon are loaded onto a Oatar Airways Cargo aircraft. (Oatar Airways Cargo

From exotic fruit to freshly >> 16 caught fish. Hapag-Llovd's based carrier announced in early June reefer containers deliver temperature-sensitive a new 167,812 square-foot space with 24/7 monitoring and backup power supplies for refrigerated and frozen storage, among other amenities in the Dayton, NJ. fruits and vegetables.

in October, the site, just two hours from Elizabeth, NJ, will

handle fish, poultry, beef,

goods from all over the world to supermarket (Hapag-Lloyd photo.) facility, according to a press release. Expected to open

**Capacity Issues** 

Nevertheless. capacity.





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Sarah Schlueter, Senior Director Niche Products at Hapag-Lloyd, says the company is seeing a definite equipment shortage. That's partly due to reefer containers' competition with laden dry containers on the refrigerated units' return from Asia.

"Although we have ordered a large quantity of box capacity, including refrigerated containers, over the past two years," she says, "we expect the shortage of reefer equipment to continue for the time being."

That brings up a problem peculiar to cold chain: a refrigerated container doesn't have to be plugged in; the box can haul whatever it can carryand, again, dry goods pull from reefer capacity.

Yanchyk, for instance, mentions a Sleek customer



that makes milk runs from Minnesota to Chicago. On the return trip, the carrier's trucks haul paper for another Sleek shipper. Simply: milk, cold; paper, n/a.

And as Schlueter points out, the backhaul conundrum contributes that much more to ongoing transport snarls. As Yanchyk explains, "All of a sudden, it was hard to find any trucks for a lot of shippers-if a refrigerated truck can load my furniture, yeah, I'll take it."

Now summer's here; enjoy your patio furniture all you want, but as Kevin Daly suggests, the season only swaps problems.

"As the summer months approach and importers switch from dry containers to reefers. this will further complicate many of the daily port challenges being felt each day," says Daly, COO at East Coast Warehouse & Distribution.

That is, terminal and warehouse space, plug-in capacity and downstream supply chains will face renewed bottlenecks, "with immediate alternative.

Envirotainer's Releye RAP and RLP containers are designed to meet the strictest requirements in pharmaceutical air freight. (Envirotainer photo.)

he says. Likewise, he expects reefer capacity, combined with a lack of temperature-controlled warehousing, "to continue to present challenges at least for the balance of the year."

Still, Greg Tuthill sees a robust 2022. At the same time. though. "equipment positioning as a result of congestion and dislocation may create equipment availability headwinds," says the Chief Commercial Officer at SeaCube Containers.

#### Shortages/Solutions

In a word: shortages, shortages everywhere, especially labor-from port personnel to truck drivers to workers in manufacturing plants.

And let's not forget shortages in pretty much everything else, including the stuff that goes into making stuff. Those progressively popular "superfood" burgers? Well, those include flour, quinoa, organic spices, almonds and the like.

"Many of our customers use dry ingredients and their supply chain plans to meet changing requirements, so he stresses the importance of a broadened network.

"It's invaluable to have supply chain partners who can accommodate those changes, without having to change suppliers," he says. "This makes the supply chain management process simpler and more efficient for all involved."

particularly in cold chain, are even more complex.

"Times like this call for collaboration between pharma companies, cold chain suppliers, airlines and forwarders," he

Back to food and that allimportant last mile in cold chain: grocery stores.

National Grocers The



Fredrik Envirotainer, where Linnér serves as Chief Business Development Officer, says that while the company has shipped the likes of a "billionaire's birthday cakes and fries for fast-food chains, for a long time, we've had one focus: ensuring temperaturelifesaving, sensitive pharmaceuticals and biomedicines."

Along with decreased air

cargo, Envirotainer sees critical

pressure on what he says

the company considers an

especially crucial need: COVID

vaccine airlifts to less-developed

Envirotainer's CryoSure platform delivers temps at minus 94 degrees F, to meet the growing demand for cell and gene therapies. (Envirotainer photo.)

Association is seeing a "perfect storm" of all of the issues C-suiters bring up here, according to Jim Dudlicek, the NGA's Director, Communications and External Affairs

Call 'em ice cubes: refrigerated containers have to stack up against dry laden containers, too. (SeaCube photo.)

Those-not to mention soaring fuel costs-simply add to the stresses on independent grocers and wholesalers with historically thin margins, he

And those are the folks who deal daily with cranky customers struggling with inflation.

So how does one handle all this pressure?

Says Yanchyk, "That's why I eat ice cream, you know, it's all the stress.'



packaging in the production of temperature-controlled finished products," says Brian Dove, Marketing Director at VersaCold Logistics Services. "So when they can't receive raw materials, they can't make the finished product, which creates shortages and delays that affect the supply chain.

The solution? Companies' bigger networks can mean bigger net worths.

As Dove puts it, VersaCold's customers are having to adjust

It's a pretty cool job for workers in an East Coast Warehouse facility. (East Coast Warehouse & Distribution photo.)



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