

T-SERIES AND MODULAR
TOWER DRYERS

PEAK CAPACITIES,
PREMIUM EFFICIENCY

GSI Take control.

CHOOSING THE RIGHT TOWER DRYER

GSI's Modular and T-Series Tower Dryers are the largest holding capacity dryers with the longest retention times on the market. Ideally suited for medium to large farm operations, GSI Tower Dryers are built using the same design principles as GSI's Zimmerman Tower Dryer, which elevators depend on to efficiently work with incoming grain.

GSI Tower Dryers offer farm operations the flexibility to not only dry, but also cool from 800 to 7,000 BPH of any cereal or feed grain so they can be safely stored in long-term storage bins. With the vacuum cooling system, heat from the hot, dry grain is used for drying wet grain, increasing efficiency and resulting in significant fuel savings for your bottom line.

Even with their large capacities, GSI Tower Dryers have a relatively small footprint. The Modular Tower Dryer uses modular construction to improve speed of installation, while the T-Series Tower Dryer provides larger capacity options and is built on site. With over 17 models available, the GSI Modular and T-Series Tower Dryers are designed to meet your operation's specific drying needs.

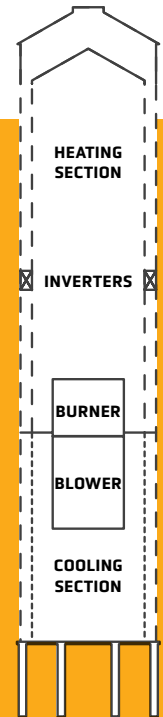
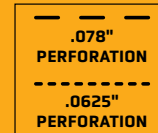
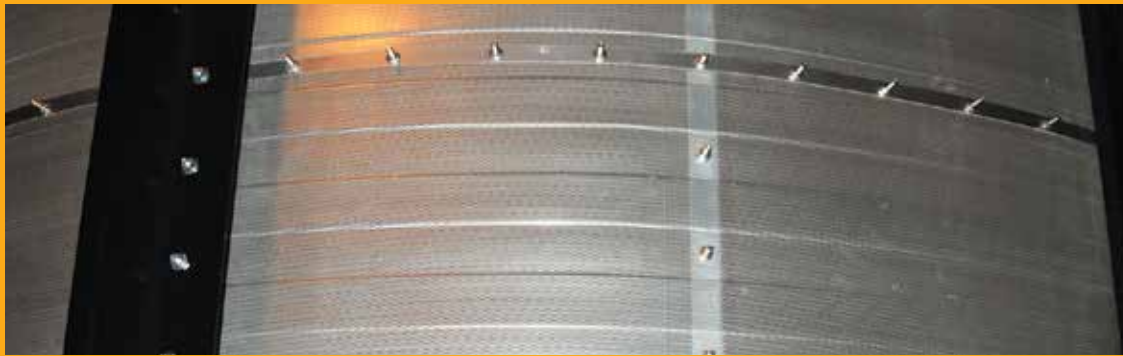
	MODULAR	T-SERIES		
MODEL FOOTPRINT	10'7"	12'	18'	24'
RANGE OF HEIGHTS	42'1" - 62'7"	59' - 92'4"	66'0" - 109'4"	97'10" - 117'10"
NUMBER OF FANS	1	1	3	3
MAXIMUM HOLDING CAPACITY (BU.)	1,049 - 1,571	1,622 - 2,595	2,915 - 4,877	6,171 - 7,399
INVERTERS	Standard			
VACUUM COOLING	Standard			

MODULAR TOWER DRYERS

Modular Dryers are designed for medium to large farms where capacities from 800 to 1500 BPH are required. All Modular LP gas models come standard with internal vaporizers, reducing your cost for LP installation. Modular Dryers are assembled and tested at GSI's manufacturing facility and then shipped for installation. The modular design reduces setup time and labor resources needed. On-site assembly can be done quickly by crane, with almost all work occurring close to the ground. The modular design allows for a standard adjustable unload auger or an optional center discharge. An option for taller legs is also available.

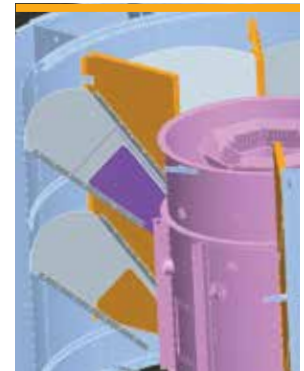
CONTROLLING PARTICULATE MATTER

A combination of perforations is used on the inside of the tower for both Modular and T-Series Tower Dryers. The heating section has .078" perforation sidewalls and the cooling section has .0625" perforations to minimize particulate matter from entering the cooling section. All outer screens on a Modular Dryer are .078".



ADJUSTABLE COOLING FLOOR

Modular Tower Dryers are designed for either a 67/33 split with a higher Dry & Cool ability, or 80/20 split to achieve greater capacities in wet grain. With the patented adjustable cooling floor, you have both options. Using eight easily moved doors, the split can be adjusted from approximately 67/33 to 80/20. Doors can be locked in either position from the service area in the cooling section of the dryer. The floor is self-cleaning in either position. Used in combination with adequate cooling air in cooling bins, the Modular Dryer doors can be adjusted to the minimum cooling position to take advantage of additional capacity. Only GSI Modular Dryers allow this simple method for controlling the amount of cooling that is to be applied.



VANE AXIAL FAN

Efficient 1750 RPM vane axial fan delivers high volumes of air at low horsepower.



IN-LINE OCTAGON BURNER

Standard on Modular Dryers capacities 1200 BPH and smaller. The fuel-efficient octagon burner provides even, continuous heat.



MAXON BURNER

TM-1015 Modular Tower Dryers utilize a fuel efficient, low nox in-line Maxon burner. Featuring a low maintenance aluminum body.

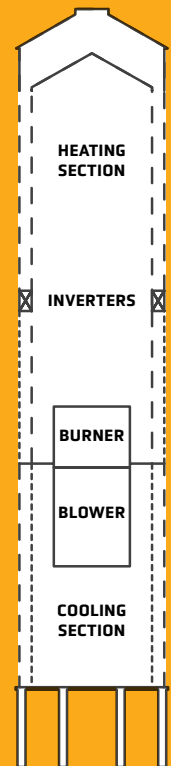
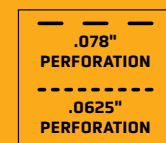
T-SERIES TOWER DRYERS

GSI T-Series Tower Dryers are designed using the same high standards and industry expertise that go into building commercial Zimmerman Tower Dryers. T-Series Dryers are built for farms where capacities of 1500 BPH to 7000 BPH are necessary. All 12' dia. LP gas models come standard with internal vaporizers while larger diameter models require external vaporizers. The 18' and 24' dia. models use three blowers with one large burner to provide the large volumes of air for effective and efficient drying.

CONTROLLING PARTICULATE MATTER

A combination of perforations is used on the inside of the tower on both Modular and T-Series Tower Dryers. The heating section has .078" perforation sidewalls and the cooling section has .0625" perforations to minimize particulate matter from entering the cooling section.

Unique to the T-Series Tower Dryers is a combination of perforations that is used on the outside. The heating section to the grain inverter and the cooling section both have .078" perforations, and from the grain inverter to the top of the cooling section .0625" perforations are used to further contain the particulate matter.



MIXED-FLOW CENTRIFUGAL BLOWER

T-Series Tower Dryers feature mixed-flow centrifugal blowers. These blowers are specially designed for the static pressure requirements of a T-Series Dryer. The highly efficient, quiet and durable mixed-flow centrifugal blower provides years of trouble-free operation.



MAXON BURNER

The centrifugal blower is paired with a long-lasting, durable, aluminum body Maxon burner, the most efficient burner available today. Standard on T-Series Dryers, the fuel efficient, low nox in-line burner provides even, continuous heat. The aluminum body reduces maintenance.



GRAIN INVERTERS

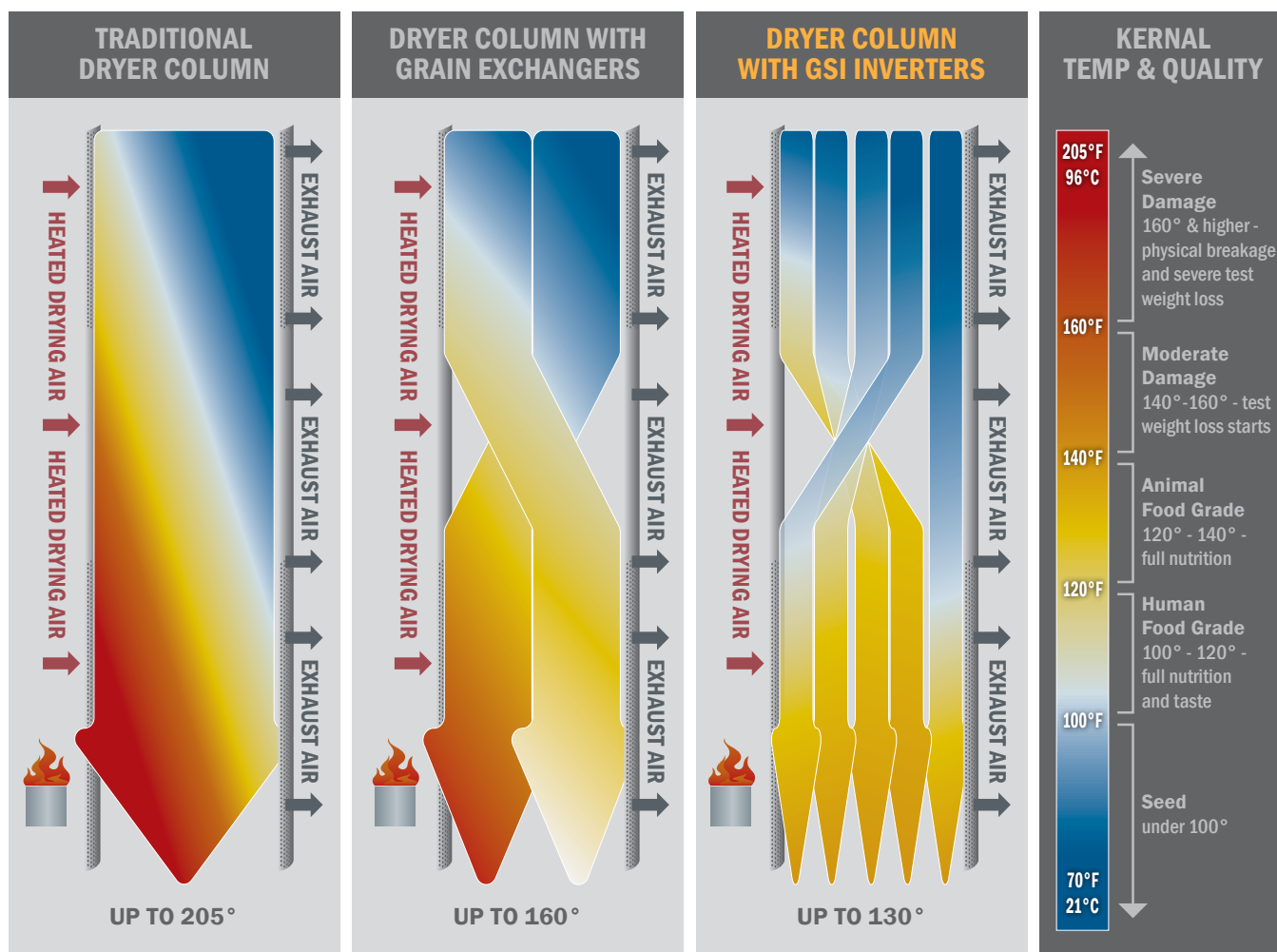
MOVING GRAIN FOR CONSISTENT, EVEN DRYING

GSI's patented Grain Inverters promote even drying, higher test weights and reduced operating costs.

While older grain exchangers moved grain from the inside of the grain column to the outer six inches, GSI's Grain Inverters invert all the grain except the outer two inches. This eliminates over-dried grain and maximizes drying efficiency and grain quality.

The warmest grain is redirected from the inside of the column to be next to the wettest grain left at the outside where it is dried by the captured heat which would have otherwise escaped.

This process maintains optimal grain temperature which maximizes grain quality, while using less fuel and reducing operating costs. A convenient clean-out door also provides easy access for quick maintenance.



TOWER DRYER FEATURES



INNER ROOF

Heavy galvanized inner roof and support provides substantial wet holding in the garner, completely sealed to retain particulate matter.



PLATFORMS

Inside/outside platforms, ladders and cages provide access to dryer.



ACCESS DOORS & HATCHES

All areas of the dryer are accessible through doors and floor hatches for easy cleaning and maintenance.



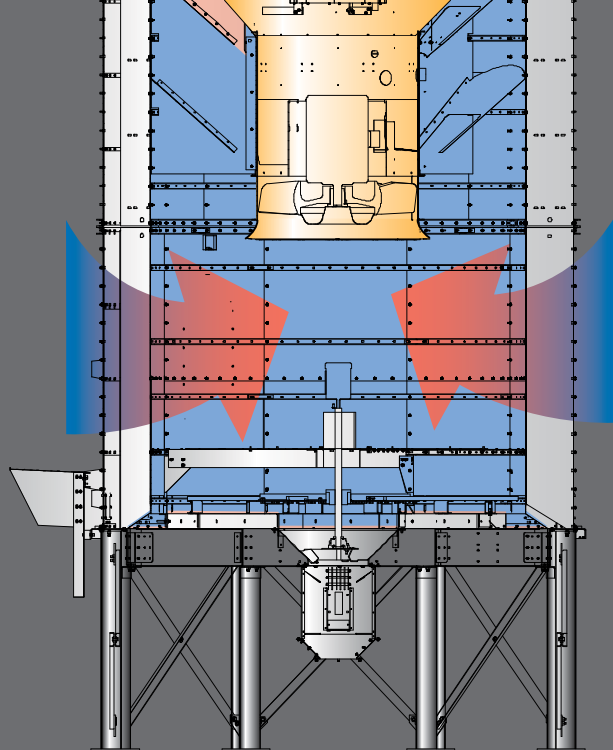
METERING DRIVE

Variable Frequency Drive (VFD) AC motor and a maintenance-free Cyclo gearbox in cooling chamber provide simple operation of metering system.

MODULAR VACUUM COOLING

Vacuum cooling is one of the most effective ways to reclaim reusable heat from hot, dry grain and reduce the amount of BTUs required by the dryer.

With the fan mounted between the cooling and heating sections, cooling air is pulled through the hot grain, mixed with ambient air and then pushed through the high efficiency burner into the drying air plenum. Because the fan is mounted internally, noise is significantly reduced.

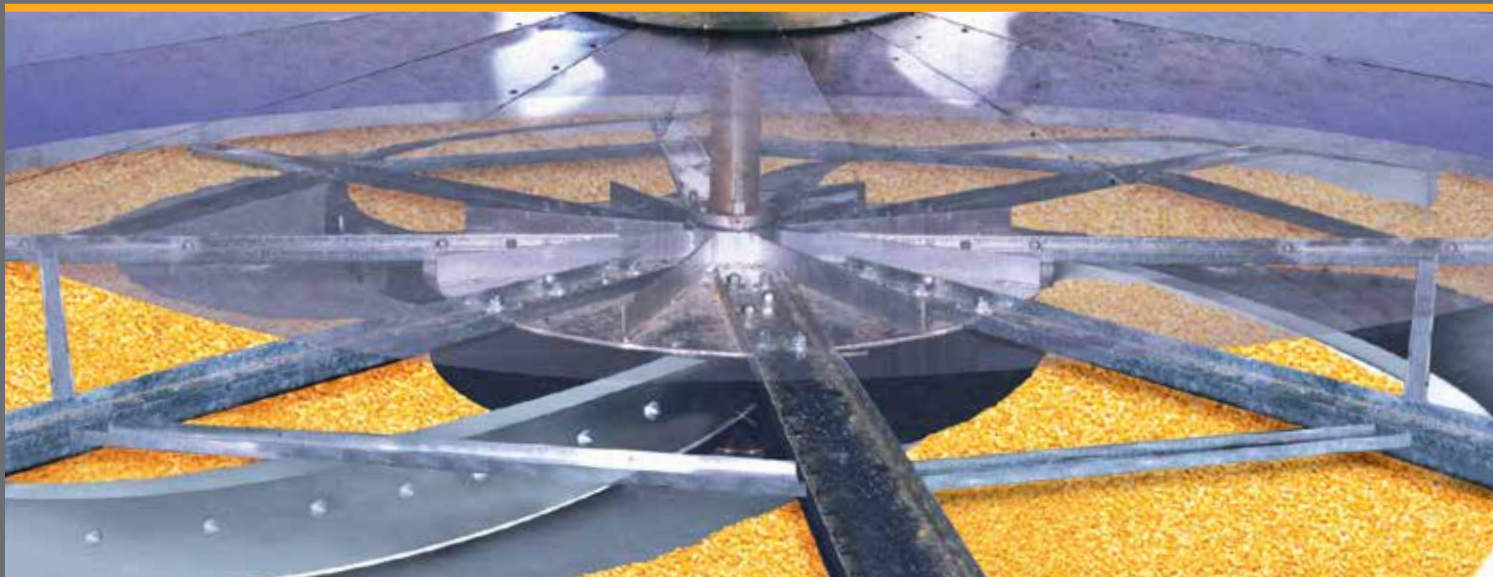


STATIC MOISTURE SAMPLER

Take moisture sample accuracy to a new level with the Static Moisture Sampler. Featuring debris guards to ensure a trash-free, accurate sample, our sampler takes readings only when the grain is static and not flowing. Using a specially designed sampling chamber, a representative grain sample is taken. The sampling chamber is blown clean with pressurized air at each cycle. Based on more accurate moisture readings, your dryer adjusts to provide optimal results.

ACCU-TROL METERING SYSTEM

GSI's patented, field-proven and self-cleaning Accu-Trol Metering System transfers grain from the dryer uniformly. A single VFD-driven AC motor and gearbox drives the system, minimizing service. The stainless steel floor and UHMW-lined sweeps are built to last and proven to significantly reduce friction.



MODULAR AIR TOWER DRYER



**MODULAR
TOWER DRYER**

GRAVITY

Does not require leveling a
of parts for ease of set

ROTARY

Designed for trouble-free

SELF-CLEANING

Cushion box on plenum roof reduces

GRAIN C

The 12-3/4" grain columns surround
the grain to receive all the BTUs from
and reducing noise. The sealed discharge
recycled back into the ple

OPTIMUM A

For maximum efficiency
while reducing par

PATENTED GRA

Grain inverters equalize column m
of the grain column, greatly im
See page 5 for

OUTSIDE STAINLE

Extend the life and appearance of t
.0625" perforations, depending o

VACUUM CO

Vacuum cool drying reclaims reusab
the amount of BTUs required by th

DIVIDER

The divider hopper prev
in the heat ple

SEALED METER

Keeps interior of

ACCU-TROL ME

Patented, self-cleaning Accu-Trol M
floor transfers grain from the dryer

STATIC MOIST

Takes reading only when grain s
See page 7 for

ND T-SERIES ER FEATURES

Y INLET

uger, reducing the number
up and maintenance.

SWITCH

ee positive level control.

G CUSHION BOX

grain damage and plenum roof wear.

COLUMNS

ing the heat plenum chamber allow
m the burner, improving efficiency
arge section prevents dirt from being
num section of the dryer.

IR VELOCITY

ncy and grain quality
articulate emissions.

AIN INVERTERS

moisture content and temperature
mproving quality and efficiency.
or more info.

SS STEEL SHEETS

he dryer. All screens utilize .078" or
on location, to reduce emissions.

COL DRYING

le heat from hot, dry grain, reducing
ne dryer. See page 6 for more info.

HOPPER

ents particulate buildup
num chamber.

RING SYSTEMS

f the dryer clean.

TERING SYSTEM

metering System with stainless steel
uniformly. See page 7 for more info.

URE SAMPLER

sample is static and not flowing.
or more info.



**T-SERIES
TOWER DRYER**

VISION NETWORK DRYER CONTROLS

THE INDUSTRY'S MOST ADVANCED DRYER CONTROL SYSTEM

Designed to take the guesswork out of operating your GSI Tower Dryer, Vision provides more control and dryer performance information than any other control system in the industry. You can quickly see the operating status of the augers, fans and heaters on the large, easy-to-read color touchscreen. On-screen temperature and moisture-based controls let you modify and manage plenum and grain temperatures quickly and easily. Making changes through Vision's straightforward interface is easy. Vision can be remote-mounted up to 1,000 feet away from the dryer by using a simple seven-wire harness.



**10.4" TFT DIAGONAL
COLOR SCREEN WITH
TOUCH SCREEN CONTROL**

**32-BIT MICROPROCESSOR
CONTROL**

PLENUM TEMP MANAGER

**INDIVIDUAL SAFETY
MONITORING WITH
STATUS DISPLAYED
ON-SCREEN**

**SHUT-DOWNS LOGGED
WITH TIME AND DATE**

**SAFETY DISCONNECT
ON EVERY DRYER**

**LOW VOLTAGE
SAFETY CIRCUIT**

MOISTURE CONTROL

GSI Vision Dryers are equipped with the familiar legacy modes of moisture control. Easily select one of the five different modes that best fits your needs, including two of our most common modes:

- **Temperature Based 5-Speed** – Uses grain temperature to determine final moisture content. Best for conditions when grain varies, mode includes automatic speed averaging so when moisture changes significantly, all five speeds will change accordingly to bring operation back into sync with the output moisture.
- **Moisture Based Infinite Speed** – Extracts data from three points in the dryer: incoming moisture, grain temp in middle of dryer and grain moisture exiting dryer. These measurements are used to determine final moisture. Enter the desired moisture set point for finished grain and Vision's infinite based moisture control will adjust the metering system speed to maintain moisture at the desired setting. This setting makes slow and calculated adjustments to the grain and is most effective in the Tower Dryer design because of its tall drying columns.

ELECTRICAL CONTROL FEATURES

Vision uses exclusive controls approved by Intertek ETL, a nationally recognized testing laboratory.

- Built to UL 508a and CSA C22.2 No. 14 standards – Certified to U.S. and Canadian electrical requirements.
- IEC Branch Breakers – IEC controls are rated for more cycles, and meet domestic and international electric codes. All dryers have branch breakers for each motor.
- IEC Motor Overloads – IEC overloads allow a wide range of adjustments to accommodate variances in incoming voltage.
- Auxiliary Auger IEC Contactors/Overloads – Load and unload auxiliary motor branch circuits are standard. If load and unload horsepower are specified at time of order, GSI will install the properly sized breaker, contactor, and overload for your application.
- Safety Disconnect – Disconnects power from main panel for servicing controls and provides a connection point for incoming electric supply.



KNOW YOUR DRYER IS DOING ITS JOB, SO YOU CAN STAY WHERE YOU ARE AND KEEP DOING YOURS.

Harvest is hectic. The last thing you need is another trip to your dryer. But you do it. Over and over. Because it has to perform. With GSI Connect you can monitor and manage your dryer from the combine, truck, or even in bed. So, you can put an end to the extra trips and get more out of your day.



MONITOR REMOTELY

See the status, adjust set points, change unload speeds, monitor performance, and more from anywhere.



REDUCE DOWNTIME

Get alerted to errors or stoppages to quickly address potential issues.



OPTIMIZE PERFORMANCE

Save time and money with remote diagnostics to keep your dryer its best.



MAXIMIZE PROFIT

Take control this harvest and get more from what you worked hard to produce.



MODULAR TOWER DRYER SPECIFICATIONS

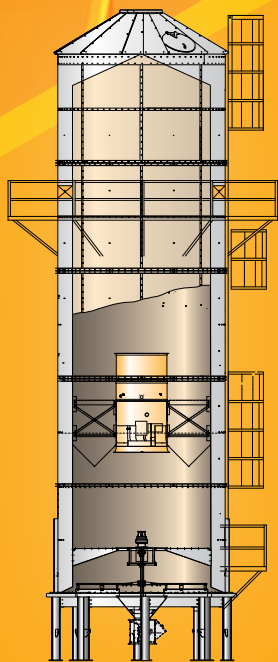
	TM-1008	TM-1010	TM-1012	TM-1015
TOWER DIAMETER¹	10'7"	10'7"	10'7"	10'7"
BLOWER SIZE	43" Axial	43" Axial	43" Axial	48" Axial
BLOWER HP	40	50	60	75
METERING HP / UNLOAD HP	1 / 3	1 / 3	1 / 3	1 / 3
MAIN BREAKER SIZE (230V/460V)	225/150	300/200	300/200	400/200
DRYING CFM	38,000	45,000	52,000	66,000
COOLING CFM	19,500	22,500	26,000	33,000
BURNER CAPACITY (MBTU)	8,200,000	9,700,000	11,200,000	14,300,000
AVERAGE HEAT USE (MBTU)²	5,100,000	6,100,000	7,000,000	8,900,000
GRAIN COLUMN	12-3/4"	12-3/4"	12-3/4"	12-3/4"
OVERALL HEIGHT³	42'1"	48'11"	55'9"	62'7"
WET HOLDING (BU)	260	260	260	260
HEAT HOLDING (BU) - MIN. COOL	552	726	900	1,074
COOL HOLDING (BU) - MIN. COOL	144	144	187	187
HEAT HOLDING (BU) - MAX. COOL	450	624	798	972
COOL HOLDING (BU) - MAX. COOL	246	246	289	289
UNLOAD AREA HOLDING	93	93	50	50
DRYER HOLDING (BU)	1,049	1,223	1,397	1,571
DRYER WT (LBS)	17,900	19,200	21,700	23,000
OUTSIDE CATWALKS	1	3	3	3
BPH (SET IN MIN. COOL)^{4 5} (20%-15%)	900	1,125	1,350	1,690
BPH (SET IN MIN. COOL)^{4 5} (25%-15%)	542	670	810	1,010
BPH (SET IN MAX. COOL)⁴ (20%-15%)	800	1,000	1,200	1,500
BPH (SET IN MAX. COOL)⁴ (25%-15%)	480	600	720	900

1. Dimensions exclude outside catwalks. Diameter is 15'7" with catwalks.
2. At 50 degrees ambient temperature.
3. Optional vertical fill pipe height not included.
4. Capacities listed are wet bushels/tonnes, for mature unfrozen #2 yellow shelled dent corn at listed moisture content and are estimates based on drying principles, field results and computer simulation. Variance may occur due to grain's physiological factors (kernel size, chemical composition, variety, maturity), excessive fines, adverse weather conditions, etc.
5. Capacities with cooling floor set in the lower minimum cool position and assumes utilization of cooling in bin (dryeration)

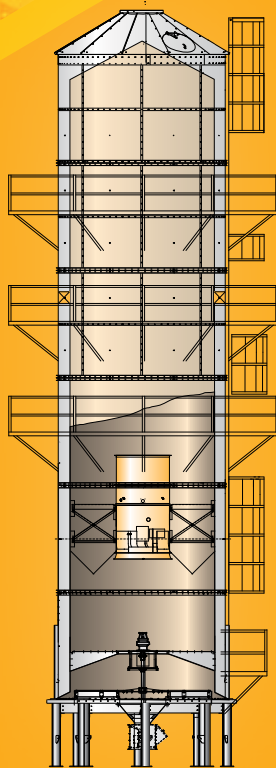
Discharge Height - Adjustable up to 42" with standard unload auger and 24" at center discharge with standard legs. 2' leg extensions are optional.

All models available in natural gas or liquid propane. Liquid propane pricing includes an internal vaporizer and high pressure regulator.

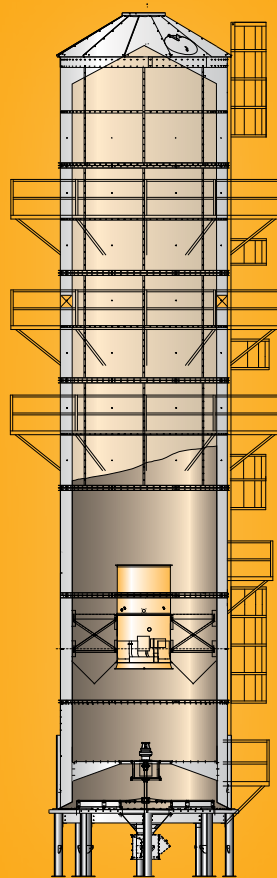
All models available in 3 phase 230 or 460 volts.



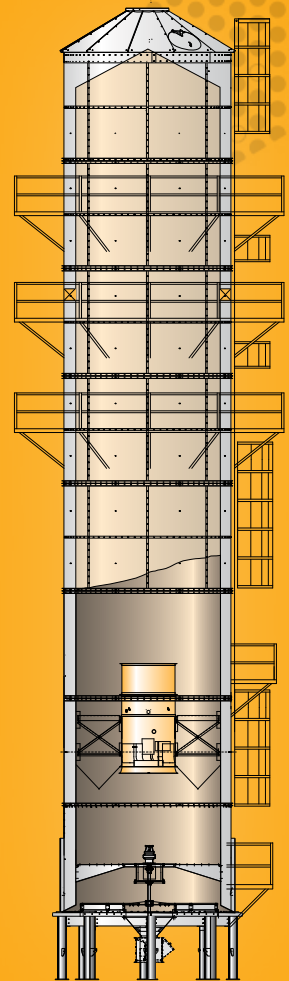
TM-1008
42'1" height
10'7" dia.
[15'7" w/catwalks]



TM-1010
48'11" height
10'7" dia.
[15'7" w/catwalks]



TM-1012
55'9" height
10'7" dia.
[15'7" w/catwalks]



TM-1015
62'7" height
10'7" dia.
[15'7" w/catwalks]

T-SERIES TOWER DRYER SPECIFICATIONS

	T-1575	T-1875	T-20100	T-24100	T-27125	T-2521	T-3026	T-3531	T-4036	T-4742	T-5046	T-6055	T-7060
TOWER DIAMETER ¹	12'					18'					24'		
BLOWER SIZE	490	542	542	600	600	3-402	3-402	3-445	3-445	3-490	3-542	3-600	3-600
BLOWER HP	75	75	100	100	125	3-40	3-50	3-60	3-75	3-75	3-100	3-100	3-125
METERING HP	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	2	2	2
MAIN BREAKER SIZE [230V/460V]	400/200	400/200	400/225	400/225	NA/250	600/250	600/300	600/400	800/400	800/400	NA/600	NA/600	NA/600
DRYING CFM	77,100	81,800	98,600	108,300	118,400	121,950	145,200	175,800	192,750	213,600	282,000	304,800	337,500
COOLING CFM	38,550	40,900	49,300	54,150	59,200	60,975	72,600	87,900	96,375	106,800	141,000	152,400	168,750
BURNER CAP. [BTUx1000]	16,654	17,669	21,298	23,393	25,574	26,341	31,363	37,973	41,634	46,138	60,192	65,837	72,900
AVE. HEAT [BTUx1000] ²	9,576	10,159	12,246	13,451	14,705	15,146	18,034	21,834	23,940	26,529	35,024	37,856	41,918
GRAIN COLUMN	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"
OVERALL HEIGHT ³	59'0"	69'0"	75'8"	85'8"	92'4"	66'0"	76'0"	86'0"	96'0"	109'4"	97'10"	107'10"	117'10"
WET HOLDING [BU]	302	302	302	302	302	731	731	731	731	731	1,279	1,279	1,279
HEAT HOLDING [BU]	914	1,158	1,256	1,499	1,693	1,511	1,813	2,210	2,512	2,964	3,479	4,042	4,452
COOL HOLDING [BU]	305	354	451	500	500	529	680	737	888	1,038	1,126	1,177	1,381
DISCHARGE HOLDING [BU]	48	48	48	48	48	144	144	144	144	144	287	287	287
DRYER HOLDING [BU]	1,622	1,915	2,110	2,401	2,595	2,915	3,368	3,822	4,275	4,877	6,171	6,785	7,399
OUTSIDE CATWALKS	1	2	2	3	3	2	2	2	3	3	2	3	3
BPH [20% -> 15%] ⁴	1,500	1,800	2,000	2,400	2,700	2,500	3,000	3,500	4,000	4,700	5,000	6,000	7,000
BPH [25% -> 15%] ⁴	900	1,080	1,200	1,440	1,620	1,500	1,800	2,100	2,400	2,820	3,000	3,600	4,200

1. Dimensions exclude outside catwalks.

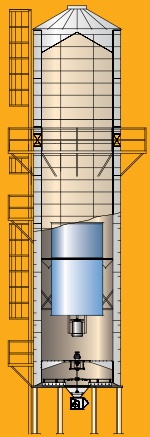
2. At 50 degrees ambient temperature.

3. Optional vertical fill pipe height not included.

4. Capacities listed are wet bushels/tonnes, for mature unfrozen #2 yellow shelled dent corn at listed moisture content and are estimates based on drying principles, field results and computer simulation. Variance may occur due to grain's physiological factors (kernel size, chemical composition, variety, maturity), excessive fines, adverse weather conditions, etc.

Discharge Height – 40"

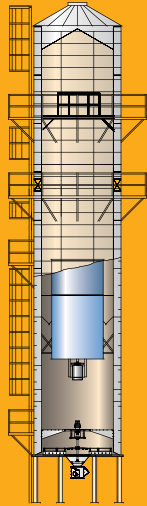
All models available in natural gas or liquid propane. Liquid propane pricing includes an internal vaporizer and high pressure regulator on 12' models.



T-1575

59'0" height
12' dia.

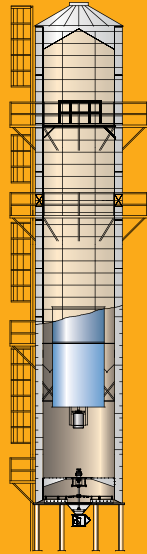
[19' w/catwalks]



T-1875

69'0" height
12' dia.

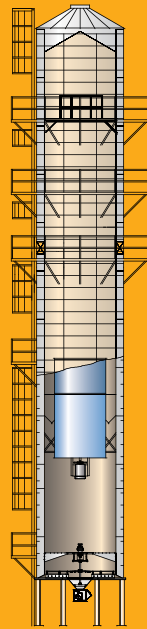
[19' w/catwalks]



T-20100

75'8" height
12' dia.

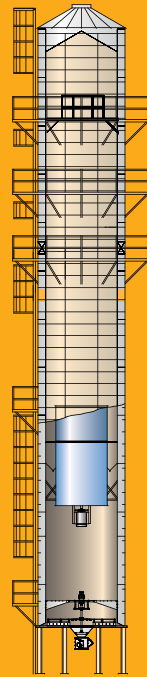
[19' w/catwalks]



T-24100

85'8" height
12' dia.

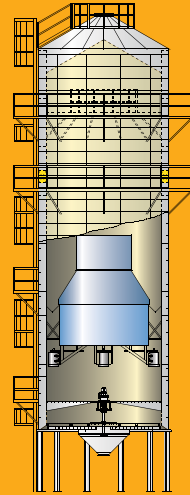
[19' w/catwalks]



T-27125

92'4" height
12' dia.

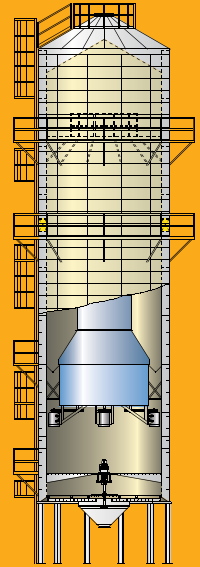
[19' w/catwalks]



T-2521

66'0" height
18' dia.

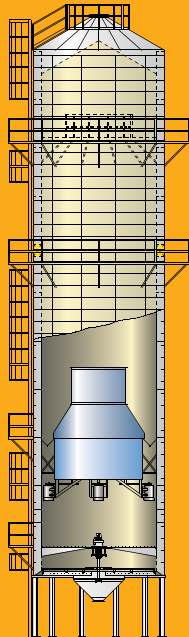
[25' w/catwalks]



T-3026

76'0" height
18' dia.

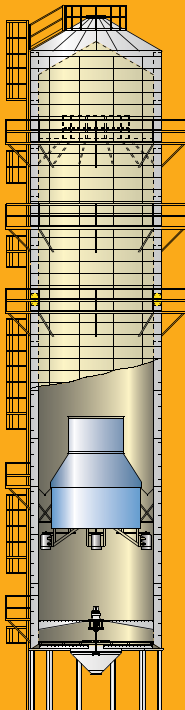
[25' w/catwalks]



T-3531

86'0" height
18' dia.

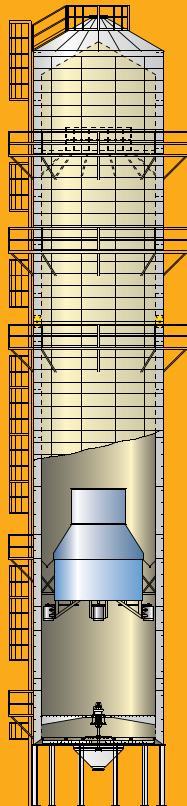
[25' w/catwalks]



T-4036

96'0" height
18' dia.

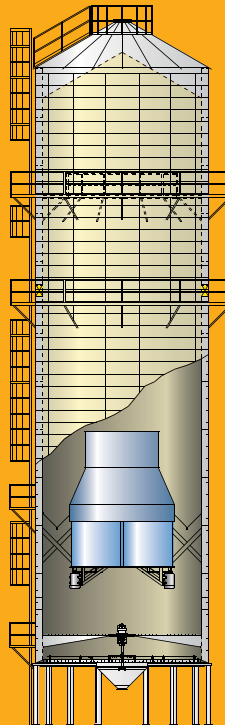
[25' w/catwalks]



T-4742

109'4" height
18' dia.

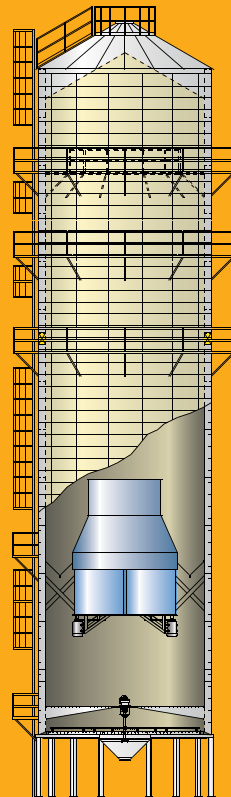
[25' w/catwalks]



T-5046

97'10" height
24' dia.

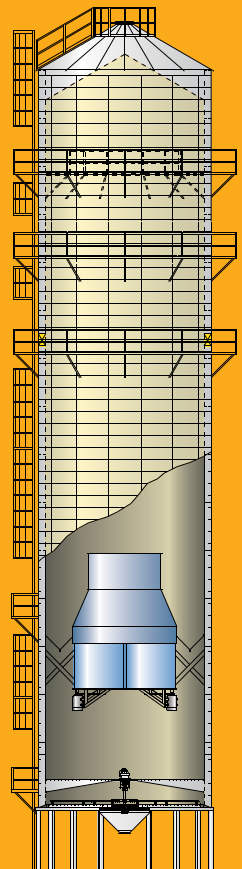
[32' w/catwalks]



T-6055

107'10" height
24' dia.

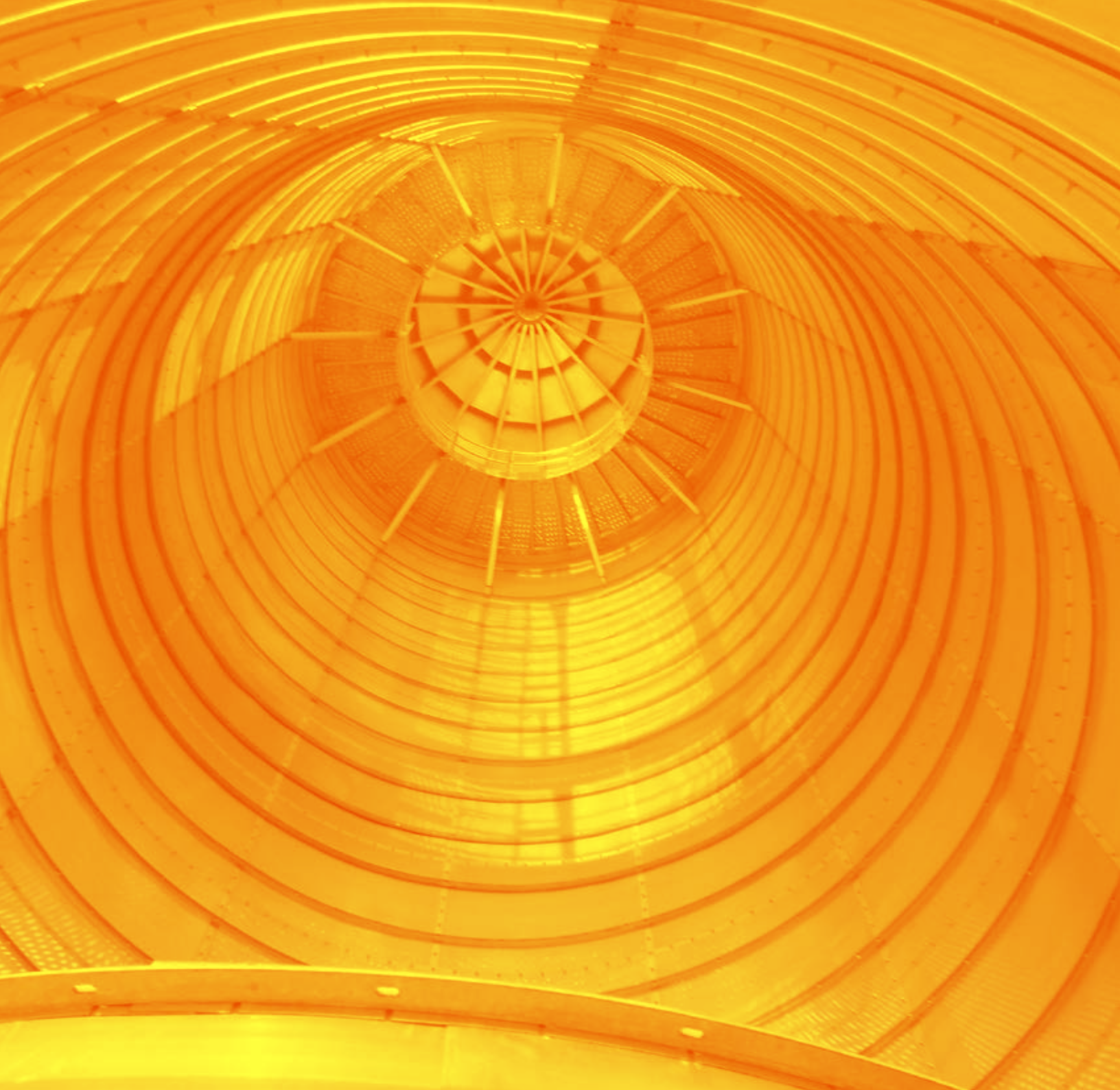
[32' w/catwalks]



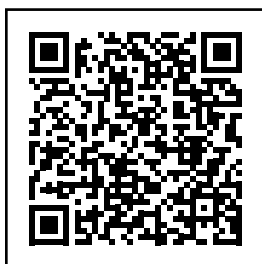
T-7060

117'10" height
24' dia.

[32' w/catwalks]



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