

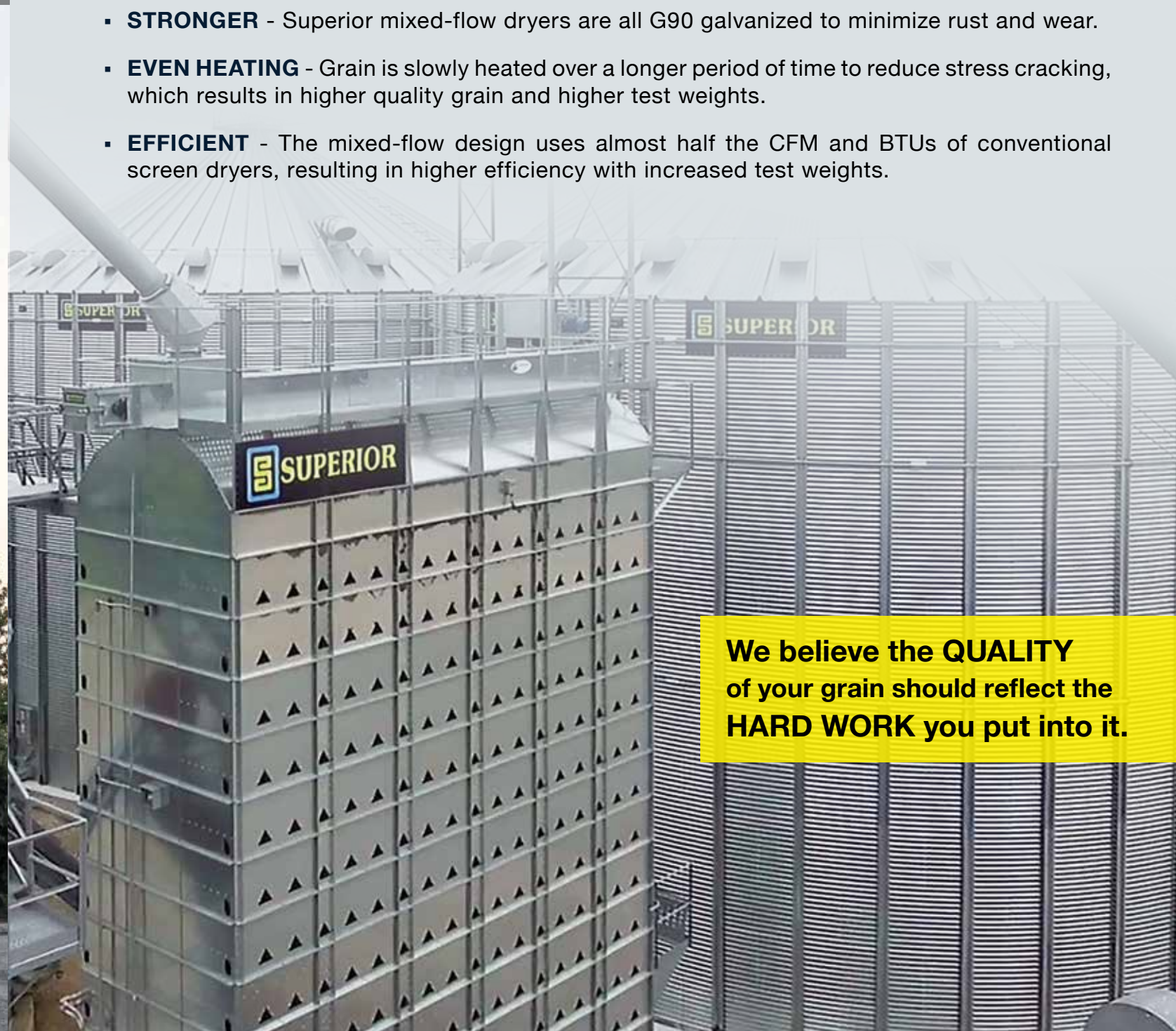


## GRAIN DRYERS

# SUPERIOR GRAIN DRYERS

## CONTINUOUS MIXED-FLOW UNDER FAN

- **BIGGER** - A larger holding capacity allows for drying capabilities ranging from 690 bushels per hour to 8,300 bushels per hour.
- **BETTER AERATION** - Under-fan models provide airflow throughout the dryer to eliminate hot and cold spots for better grain quality, lower operating costs and less chance of fire.
- **STRONGER** - Superior mixed-flow dryers are all G90 galvanized to minimize rust and wear.
- **EVEN HEATING** - Grain is slowly heated over a longer period of time to reduce stress cracking, which results in higher quality grain and higher test weights.
- **EFFICIENT** - The mixed-flow design uses almost half the CFM and BTUs of conventional screen dryers, resulting in higher efficiency with increased test weights.



We believe the **QUALITY** of your grain should reflect the **HARD WORK** you put into it.

# ▶ SUPERIOR GRAIN DRYER SPECIFICATIONS

Superior Dryer Model	BPH 5 Pt.	BPH 10 Pt.	Motor Size Std	Motor Size Spclty.	No. of Fans	Total Fan HP Std.	Total Fan HP Spclty.	BU Total Holding	Leveling Drag Ht. (ft.)	Gravity Fill Ht. (ft.)
1610	1063	691	10	15	4	40	60	1361	35	36
1611	1170	761	10	15	4	40	60	1468	37	38
1612	1276	829	10	15	4	40	60	1574	39	40
1613	1383	899	10	15	4	40	60	1681	41	42
1614	1489	968	10	15	4	40	60	1787	43	44
1615	1595	1037	15	20	4	60	80	1893	45	46
1616	1702	1106	15	20	4	60	80	2000	47	48
1617	1808	1175	15	20	4	60	80	2106	49	50
1618	1914	1244	15	20	4	60	80	2212	51	52
1619	2021	1314	20	30	4	80	120	2319	53	54
1620	2127	1383	20	30	4	80	120	2425	55	56
1621	2233	1451	20	30	4	80	120	2531	57	58
1622	2340	1521	20	30	4	80	120	2638	59	60
1623	2446	1590	30	30	4	120	120	2744	61	62
1624	2552	1659	30	30	4	120	120	2850	63	64
1625	2659	1728	30	30	4	120	120	2957	65	66
1626	2765	1797	30	30	4	120	120	3063	67	68
<b>2400 Series</b>										
2410	1595	1037	10	15	6	60	90	2042	35	39
2411	1755	1141	10	15	6	60	90	2202	37	41
2412	1914	1244	10	15	6	60	90	2361	39	43
2413	2074	1348	10	15	6	60	90	2521	41	45
2414	2233	1451	10	15	6	60	90	2680	43	47
2415	2393	1555	15	20	6	90	120	2840	45	49
2416	2552	1659	15	20	6	90	120	2999	47	51
2417	2712	1763	15	20	6	90	120	3159	49	53
2418	2871	1866	15	20	6	90	120	3318	51	55
2419	3031	1970	20	30	6	120	180	3478	53	57
2420	3190	2074	20	30	6	120	180	3637	55	59
2421	3350	2178	20	30	6	120	180	3797	57	61
2422	3509	2281	20	30	6	120	180	3956	59	63
2423	3669	2385	30	30	6	180	180	4116	61	65
2424	3829	2489	30	30	6	180	180	4276	63	67
2425	3988	2592	30	30	6	180	180	4435	65	69
2426	4148	2696	30	30	6	180	180	4595	67	71

\* Total Height Under Fan Dryer Includes 6.5ft Stand. Dryer Width: 8ft 2in (all models)

\*\* Operating burner capacities are based on a 150 deg. F (83 deg. C) temperature rise for average and 200 deg. F (111 deg. C) temperature rise for maximum.

\*\*\* Based on 220 deg. F (104 deg. C) heat plenum(s) temperature.

Drying clean corn (average test weight of 54lbs per bu.) from 20% to 15% at 200 deg. F, with 60 deg. F ambient air temperature and 50% relative humidity.

**PLEASE NOTE:** This information is intended to assist customers in selecting the Superior grain drying system based on their individual needs. The performance figures and capacities presented in this document are only estimates, based on calculated simulations, and do not constitute express or implied warranties. Many factors influence the grain drying process, including ambient temperature, relative humidity, grain variety, grain quality, grain temperature, dryer operating temperatures, dryer add-ons and accessories, and dryer condition, maintenance and operation.

# ▶ SUPERIOR GRAIN DRYER SPECIFICATIONS CONTINUED

Superior Dryer Model	BPH 5 Pt.	BPH 10 Pt.	Motor Size Std	Motor Size Spclty.	No. of Fans	Total Fan HP Std.	Total Fan HP Spclty.	BU Total Holding	Leveling Drag Ht. (ft.)	Gravity Fill Ht. (ft.)
3212	2552	1659	10	15	8	80	120	3148	39	45
3213	2765	1797	10	15	8	80	120	3361	41	47
3214	2978	1936	10	15	8	80	120	3574	43	49
3215	3190	2074	15	20	8	120	160	3786	45	51
3216	3403	2212	15	20	8	120	160	3999	47	53
3217	3616	2350	15	20	8	120	160	4212	49	55
3218	3829	2489	15	20	8	120	160	4425	51	57
3219	4041	2627	20	30	8	160	240	4637	53	59
3220	4254	2765	20	30	8	160	240	4850	55	61
3221	4467	2904	20	30	8	160	240	5063	57	63
3222	4679	3041	20	30	8	160	240	5275	59	65
3223	4892	3180	30	30	8	240	240	5488	61	67
3224	5105	3318	30	30	8	240	240	5701	63	69
3225	5317	3456	30	30	8	240	240	5913	65	71
3226	5530	3595	30	30	8	240	240	6126	67	73
<b>4000 Series</b>										
4016	4254	2765	15	20	10	150	200	4999	47	N/A
4017	4520	2938	15	20	10	150	200	5265	49	N/A
4018	4786	3111	15	20	10	150	200	5531	51	N/A
4019	5052	3284	20	30	10	200	300	5797	53	N/A
4020	5317	3456	20	30	10	200	300	6062	55	N/A
4021	5583	3629	20	30	10	200	300	6328	57	N/A
4022	5849	3802	20	30	10	200	300	6594	59	N/A
4023	6115	3975	30	30	10	300	300	6860	61	N/A
4024	6381	4148	30	30	10	300	300	7126	63	N/A
4025	6647	4321	30	30	10	300	300	7392	65	N/A
4026	6913	4493	30	30	10	300	300	7658	67	N/A
<b>4800 Series</b>										
4816	5105	3318	15	20	12	180	240	5999	47	N/A
4817	5424	3526	15	20	12	180	240	6318	49	N/A
4818	5743	3733	15	20	12	180	240	6637	51	N/A
4819	6062	3940	20	30	12	240	360	6956	53	N/A
4820	6381	4148	20	30	12	240	360	7275	55	N/A
4821	6700	4355	20	30	12	240	360	7594	57	N/A
4822	7019	4562	20	30	12	240	360	7913	59	N/A
4823	7338	4770	30	30	12	360	360	8232	61	N/A
4824	7657	4977	30	30	12	360	360	8551	63	N/A
4825	7976	5184	30	30	12	360	360	8870	65	N/A
4826	8295	5392	30	30	12	360	360	9189	67	N/A

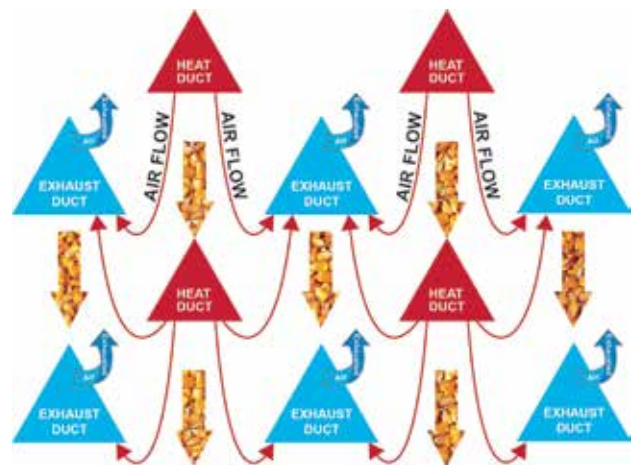


## CONTROL PANEL



## ▶ MIXED-FLOW DESIGN

- **Kernel Temperature** - Superior dryers condition grain from all sides and keep all seeds the same temperature throughout the drying process.
- **Retention Time** - retains grain longer while maintaining a high rate of bushels per hour output.



## ▶ EASY OPERATION, TOTAL CONTROL

- **DM510** - the DM510 comes standard with all Superior dryers and provides more detailed drying information as well as automated control. Allowing you to electronically monitor any aspect of the dryer or drying process.



## ▶ LOW COST, HIGH EFFICIENCY

- **Internal Vaporizer** - the Schedule 80 internal vaporizer is the safest and most efficient in the industry. It's 2-inch line vaporizes the propane over more surface area.
- **Fuel-Efficient Maxon Burner** - requires less than a pound of propane to produce 1 million BTUs per linear foot, keeping your energy costs low.
- **Two Vapor Regulators** - two vapor regulators ensure correct burner pressure. A double-valve body between the primary and secondary regulators provide step-down pressure and ensures that propane enters the burner at the correct pressure.

## ▶ EASY IN, EASY OUT

- **Gravity Fill** - standard on 16'-32' dryer models. With no motor or moving parts, it's an efficient, low-maintenance filling solution.
- **Leveling Drag** - If height is a restriction, the leveling drag is a low-profile filling option.
- **2-to-1 Transition** - standard on all dryers. Two drag chain conveyors carry conditioned grain from the bottom of the dryer toward the unloading point.
- **Cross-Drag Conveyor** - available in multiple length sections. Connects to the dryer's two drag chain conveyors and carries conditioned grain away from the dryer for storage or transportation.
- **Platforms** - a 33-inch-wide catwalk covering both sides of the top is standard. The end platforms are 30 inches deep and run the full 8-foot width of the dryer. Optional side platforms are 33 inches wide and extend the length of the dryer.

## ▶ LOW MAINTENANCE, EASY EXPANSION

- **Single-Phase Power or Three-Phase Power**  
Superior Dryers utilize single-phase as well as three-phase power to fit any farm situation. And with capabilities ranging from 690 to 8,300 bushels per hour, they can fit operations of any size, from small family farms to large commercial elevators.
- **Easy Expansion** - allows for your dryer to grow with your operation. Models start at 10 tiers and can be easily expanded onsite by adding additional (up to 26) tiers.
- **Drop-Door Cleanouts** - easy to open by flipping the handle on the over-center cam locks, these cleanouts make cleaning with an air hose easy, and everything can be blown out from top to bottom. The door also acts as an emergency cleanout.
- **Control Panel Temperature Regulator**  
The control panel contains a heater and cooling fan to regulate the temperature within the panel. It protects the unit from overheating or moisture buildup that could damage the control panel's components.
- **Panel Circuit Transformer** - protects against power surges and feedback.
- **In-Panel Service-Rated Disconnect** - means you don't need to install an expensive external disconnect as the main power shutoff.

## ▶ QUALITY PROCESS, QUALITY GRAIN

- **True Burner Transition** - a 4-foot true burner transition mixes air properly to help eliminate hot or cold spots.
- **Corner Venting** - the true corner venting, featuring the largest corner venting in the industry, prevents hot spots from forming in the dryer's corners.
- **Drag Chain Conveyors** - drag chain conveyors with durable, ultra-high-molecular-weight polyethylene paddles are gentler on recently conditioned grain.

## ▶ SAFE DRYING, SAFE OPERATION

- **Flame Rod** - converts energy from the flame into an electrical signal, eliminating false positive readings and providing for more accurate flame sensing.
- **Liquid Gas Float Switch** - forces all liquid propane to vaporize before being released to the vapor train, resulting in better fuel efficiency and better performance.
- **True Piloted Gas Train** - automatically shuts off after the burner is lit and won't reignite if the main flame goes out preventing gas from filling the dryer.

**"Our Superior mixed-flow grain dryer has already saved us over \$30,000 so far this year... drying high-moisture corn, soybeans, wheat and barley with great results!" (2019)**

- Evan Montgomery (Thompson, ND)