

ARCHITECTURAL FCH2™

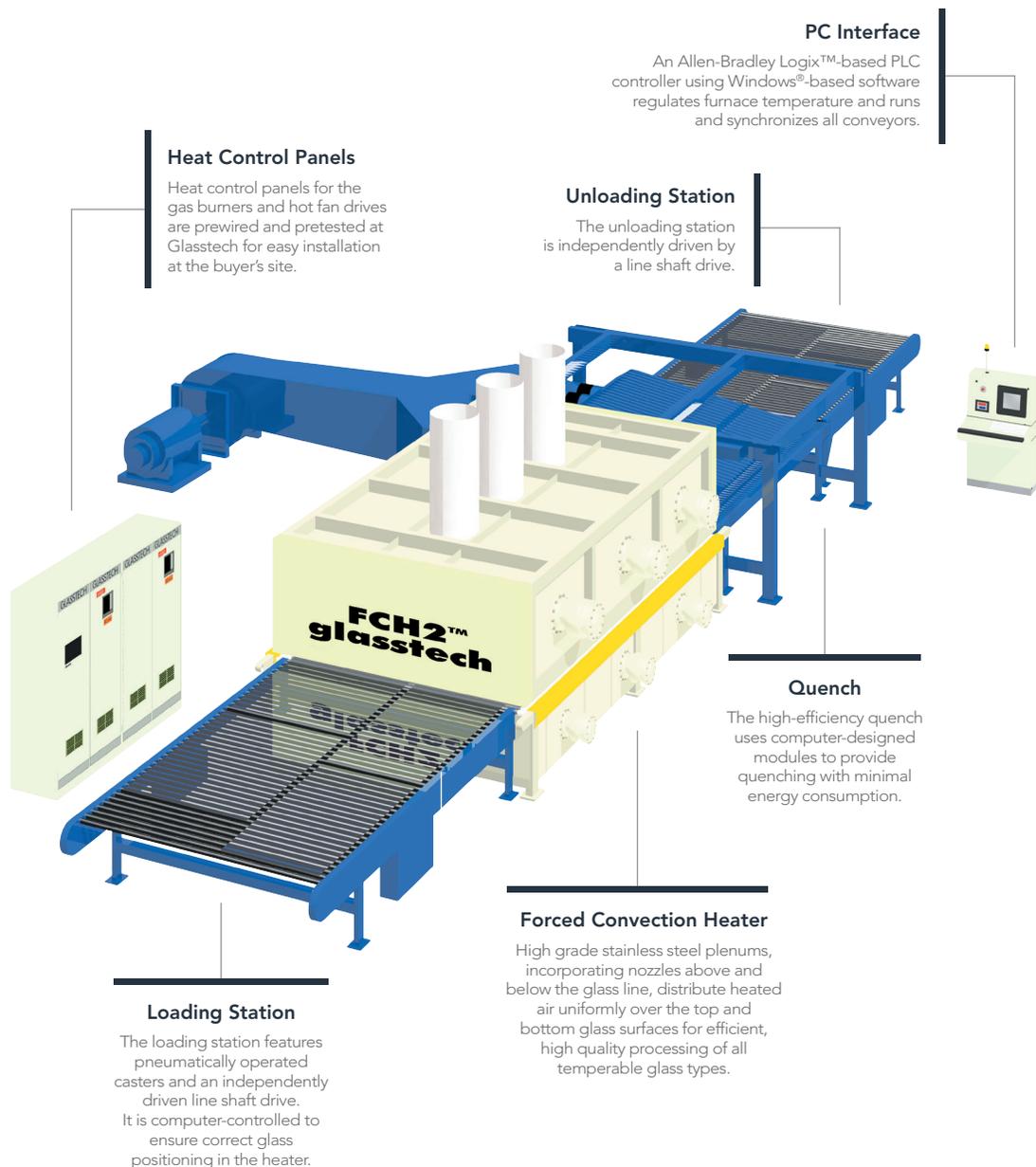
Flat Glass Tempering System with Forced Convection Heating

Glasstech's FCH2 is recognized as the world's leading system for the efficient processing of all types of flat glass products.

The FCH2 system offers the perfect combination of controlled, natural gas fired, forced convection heating and superior tempering technology.

FCH2 is able to heat clear glass at a rate of 30 seconds per millimeter of thickness, and high performance Low-E glass at a rate of 33-35 seconds per millimeter, depending on the specific composition of the coating. The heating time for high performance Low-E glass is approximately half that of conventional radiant heating systems.

FCH2™



ARCHITECTURAL FCH2™ TECHNICAL FEATURES

In actual operation, continuous production rates will be between 50% and 75% of the available load area and will depend on glass dimensions, edgework quality and load area utilization. Production rates for ceramic frit-coated panels will vary depending on part size, thickness and the specific type of frit used, the frit pattern and the consistency of the frit thickness.

Production Capability – Loads/Hour		Single Cycle – 1 Load Heating			Double Cycle – 2 Loads Heating		
(mm)	(in)	Most Glass Types	Low-E* Coated		Most Glass Types	Low-E* Coated	
			K Glass	Soft Coat		K Glass	Soft Coat
3.0	.118	36	36	30.5	72	72	61
4.0	5/32	30	30	25.5	60	60	51
5.0	3/16	24	24	20.5	48	48	41
6.0	1/4	19.5	19.5	17	39	39	33
8.0	5/16	14.5	–	–	29	–	–
10.0	3/8	11	–	–	22	–	–
12.0	1/2	7.5	–	–	15	–	–
15.0	9/16	6	–	–	–	–	–
19.0	3/4	5.5	–	–	–	–	–

* Heating time may vary depending on the composition of the glass and the surface coating.

Standard System Configurations					
Heater Width		Heater Length		Max. Load Length	
(mm)	(in)	(m)	(ft)	(mm)	(in)
1220	48	3.66	12	2440	96
		5.5	18	3200	126
1520	60	5.5	18	3200	126
		9	30	3200	126
2140	84	5.5	18	3810	150
		7.3	24	5000	197
		11	36	3810	150
2440	96	5.8	19	3810	150
		7.7	25	5000	197
		11.5	38	3810	150
2800	110	7.6	25	5000	197
		9.1	30	6000	236
		10.7	35	7000	276

Installed Power									
Heater Width		Heater Length		Electric Heating	Gas Heating	Quench†	Drives	Total	Total
(mm)	(in)	(m)	(ft)	(kW)	(MM) Btu/Hour	(kW)	(kW)	(kW)	(MM) Btu/Hour
1220	48	3.66	12	45	4	130	22.5	198	4
		5.5	18	68	6	160	22.5	251	6
1520	60	5.5	18	68	6	200	22.5	291	6
		9	30	113	10	200	22.5	336	10
2140	84	5.5	18	79	6	320	22.5	422	6
		7.3	24	105	8	400	22.5	528	8
		11	36	158	12	320	22.5	501	12
2440	96	5.8	19	90	6	360	22.5	473	6
		7.7	25	120	8	460	22.5	603	8
		11.5	38	180	12	360	22.5	563	12
2800	110	7.6	25	150	10	490††	30	670	10
		9.1	30	180	12	530††	30	740	12
		10.7	35	210	14	530††	30	770	14

† Quench power based on 4mm (5/32") minimum thickness to ANSI Z97.1-1984 and BS 6206 or compatible international standards.
 †† 4mm quench load area reduced.

Floor Space Requirements															
Heater Width		Heater Length		Maximum Load Length		Total Width		Total Length		Total Height		Blower Room			
(mm)	(in)	(m)	(ft)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	Length		Width	
												(mm)	(in)	(mm)	(in)
1220	48	3.66	12	2440	96	3988	157	13716	540	2896	114	9144	360	9144	360
		5.5	18	3200	126			17374	684			9144	360	9144	360
1520	60	5.5	18	3200	126	2950	116	19202	756	2896	114	9144	360	9144	360
		9	30	3200	126			22860	900			9144	360	9144	360
2140	84	5.5	18	3810	150	3530	139	19812	780	3480	137	9144	360	9144	360
		7.3	24	5000	197			25298	996			9144	360	9144	360
		11	36	3810	150			25298	996			9144	360	9144	360
2440	96	5.8	19	3810	150	4674	184	20117	792	3353	132	9144	360	9144	360
		7.7	25	5000	197			25603	1008			9144	360	9144	360
		11.5	38	3810	150			25908	1020			9144	360	9144	360
2800	110	7.6	25	5000	197	5030	198	25603	1008	3660	144	9144	360	9144	360
		9.1	30	6000	236			29870	1176			9144	360	9144	360
		10.7	35	7000	275			34138	1344			9144	360	9144	360

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