

# Energy Facts - Designline Chilled Patisserie (Rear Doors/ Fixed Back)



**ASSUMPTIONS: Designline Chilled Patisserie switched on for 8 hours per 24, Chilled Patisserie Used 7 days Per Week, Chilled Patisserie is in standby for 16 hours per 24, Lights off in standby, Average room temp. 18 deg C 50 % RH. Electric Cost - 18.000p/kWh - Average Business Rate - June 2023.**

Designline Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC6HT (Self Help Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 528w	528	0.528	4.224	1541.76
	1 no. EC Deck Fan On ( 8 hrs in 24 ) 6.5w	6.5	0.0065	0.052	18.98
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 4w ea.	16	0.016	0.128	46.72
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
PC6FBHT (Self Help Cold Patiss.) (Fixed Back)	Condensing Unit Off In Defrost ( 1 hour in 8 )	-528	-0.528	-0.528	-192.72
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	1 no. EC Deck Fan Off In Defrost ( 1 hour in 8 )	-6.5	-0.0065	-0.0065	-2.3725
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-176.00	-0.18	-1.41	-513.92
				kWh/year	1418.57
				Electric cost / year - 18.000 p/kWh	£255.34
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.4

Designline Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC6ASHT (Assisted Serve Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 380w	380	0.38	3.04	1109.6
	1 no. EC Deck Fan On ( 8 hrs in 24 ) 6.5w	6.5	0.0065	0.052	18.98
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 4w ea.	16	0.016	0.128	46.72
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
Designline	Condensing Unit Off In Defrost ( 1 hour in 8 )	-380	-0.38	-0.38	-138.7
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	1 no. EC Deck Fan Off In Defrost ( 1 hour in 8 )	-6.5	-0.0065	-0.0065	-2.3725
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-126.67	-0.13	-1.01	-369.87
				kWh/year	1184.49
				Electric cost / year - 18.000 p/kWh	£213.21
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.3

Designline Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC9HT (Self Help Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 706w	706	0.706	5.648	2061.52
	2 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	13	0.013	0.104	37.96
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 10w ea.	40	0.04	0.32	116.8
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
PC9FBHT (Self Help Cold Patiss.) (Fixed Back)	Condensing Unit Off In Defrost ( 1 hour in 8 )	-706	-0.706	-0.706	-257.69
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	2 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-13	-0.013	-0.013	-4.745
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-235.33	-0.24	-1.88	-687.17
				kWh/year	1786.80
				Electric cost / year - 18.000 p/kWh	£321.62
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.5

Designline Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC9ASHT (Assisted Serve Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 528w	528	0.528	4.224	1541.76
	2 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	13	0.013	0.104	37.96
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 10w ea.	40	0.04	0.32	116.8
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
Designline	Condensing Unit Off In Defrost ( 1 hour in 8 )	-528	-0.528	-0.528	-192.72
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	2 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-13	-0.013	-0.013	-4.745
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-176.00	-0.18	-1.41	-513.92
				kWh/year	1505.26
				Electric cost / year - 18.000 p/kWh	£270.95
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.4

Designline Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC12HT (Self Help Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 817w	817	0.817	6.536	2385.64
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156	56.94
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 12w ea.	48	0.048	0.384	140.16
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
PC12FBHT (Self Help Cold Patiss.) (Fixed Back)	Condensing Unit Off In Defrost ( 1 hour in 8 )	-817	-0.817	-0.817	-298.205
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.0195	-7.1175
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-272.33	-0.27	-2.18	-795.21
				kWh/year	2002.33
				Electric cost / year - 18.000 p/kWh	£360.42
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.6

Designline Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC12ASHT (Assisted Serve Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 706w	706	0.706	5.648	2061.52
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156	56.94
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 12w ea.	48	0.048	0.384	140.16
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
Designline	Condensing Unit Off In Defrost ( 1 hour in 8 )	-706	-0.706	-0.706	-257.69
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.0195	-7.1175
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-235.33	-0.24	-1.88	-687.17
				kWh/year	1826.76
				Electric cost / year - 18.000 p/kWh	£328.82
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.5

Designline Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC15HT (Self Help Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 817w	817	0.817	6.536	2385.64
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156	56.94
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 18w ea.	72	0.072	0.576	210.24
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
PC15FBHT (Self Help Cold Patiss.) (Fixed Back)	Condensing Unit Off In Defrost ( 1 hour in 8 )	-817	-0.817	-0.817	-298.205
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.0195	-7.1175
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-272.33	-0.27	-2.18	-795.21
				kWh/year	2072.41
				Electric cost / year - 18.000 p/kWh	£373.03
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.6

Designline Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC15ASHT (Assisted Serve Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 817w	817	0.817	6.536	2385.64
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156	56.94
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 18w ea.	72	0.072	0.576	210.24
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
Designline	Condensing Unit Off In Defrost ( 1 hour in 8 )	-817	-0.817	-0.817	-298.205
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.0195	-7.1175
	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-272.33	-0.27	-2.18	-795.21
				kWh/year	2072.41
				Electric cost / year - 18.000 p/kWh	£373.03
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.6

Designline Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC18HT (Self Help Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 787w	787	0.787	6.296	2298.04
	4 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	26	0.026	0.208	75.92
	8 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 7x10w & 1x12w ea.	82	0.082	0.656	239.44
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
PC18FBHT (Self Help Cold Patiss.) (Fixed Back)	Condensing Unit Off In Defrost ( 1 hour in 8 )	-787	-0.787	-0.787	-287.255
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	4 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-26	-0.026	-0.026	-9.49
	8 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-262.33	-0.26	-2.10	-766.01
				kWh/year	2070.77
				Electric cost / year - 18.000 p/kWh	£372.74
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.6

Designline Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)					
Model	Component	Rating (W)	kWh/hour	kWh/day	kWh/year
PC18ASHT (Assisted Serve Cold Patiss.) (Rear Doors)	Condensing unit On ( 8 hrs in 24 ) 787w	787	0.787	6.296	2298.04
	4 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	26	0.026	0.208	75.92
	8 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 7x10w & 1x12w ea.	82	0.082	0.656	239.44
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125	410.625
	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0	0
Designline	Condensing Unit Off In Defrost ( 1 hour in 8 )	-787	-0.787	-0.787	-287.255
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3	109.5
	4 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-26	-0.026	-0.026	-9.49
	8 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0	0
Designline	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-262.33	-0.26	-2.10	-766.01
				kWh/year	2070.77
				Electric cost / year - 18.000 p/kWh	£372.74
				CO2 emissions in tons/year (0.281 kg CO2 per kWh)	0.6