

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



**ASSUMPTIONS: Designline (Drop In) 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 (Drop In) Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC6HTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 528w	528	0.528	4.224
	1 no. EC Deck Fan On ( 8 hrs in 24 ) 6.5w	6.5	0.0065	0.052
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 4w ea.	16	0.016	0.128
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Self Help Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-528	-0.528	-4.224
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	1 no. EC Deck Fan Off In Defrost ( 1 hour in 8 )	-6.5	-0.0065	-0.052
PC6FBHTD (Drop In)	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-176.00	-0.18	-1.41
	kWh/year 1418.57			
	Electric cost / year - 18.000 p/kWh <b>£255.34</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.4				

Designline (Drop In) Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC6ASHTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 380w	380	0.38	3.04
	1 no. EC Deck Fan On ( 8 hrs in 24 ) 6.5w	6.5	0.0065	0.052
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 4w ea.	16	0.016	0.128
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Assisted Serve Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-380	-0.38	-3.04
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	1 no. EC Deck Fan Off In Defrost ( 1 hour in 8 )	-6.5	-0.0065	-0.052
Designline	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-126.67	-0.13	-1.01
	kWh/year 1184.49			
	Electric cost / year - 18.000 p/kWh <b>£213.21</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.3				

Designline (Drop In) Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC9HTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 706w	706	0.706	5.648
	2 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	13	0.013	0.104
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 10w ea.	40	0.04	0.32
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Self Help Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-706	-0.706	-5.648
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	2 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-13	-0.013	-0.104
PC9FBHTD (Drop In)	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-235.33	-0.24	-1.88
	kWh/year 1786.80			
	Electric cost / year - 18.000 p/kWh <b>£321.62</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.5				

Designline (Drop In) Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC9ASHTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 528w	528	0.528	4.224
	2 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	13	0.013	0.104
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 10w ea.	40	0.04	0.32
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Assisted Serve Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-528	-0.528	-4.224
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	2 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-13	-0.013	-0.104
Designline	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-176.00	-0.18	-1.41
	kWh/year 1505.26			
	Electric cost / year - 18.000 p/kWh <b>£270.95</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.4				

Designline (Drop In) Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC12HTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 817w	817	0.817	6.536
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 12w ea.	48	0.048	0.384
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Self Help Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-817	-0.817	-6.536
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.156
PC12FBHTD (Drop In)	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-272.33	-0.27	-2.18
	kWh/year 2002.33			
	Electric cost / year - 18.000 p/kWh <b>£360.42</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.6				

Designline (Drop In) Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC12ASHTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 706w	706	0.706	5.648
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 12w ea.	48	0.048	0.384
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Assisted Serve Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-706	-0.706	-5.648
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.156
Designline	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-235.33	-0.24	-1.88
	kWh/year 1826.76			
	Electric cost / year - 18.000 p/kWh <b>£328.82</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.5				

Designline (Drop In) Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC15HTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 817w	817	0.817	6.536
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 18w ea.	72	0.072	0.576
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Self Help Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-817	-0.817	-6.536
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.156
PC15FBHTD (Drop In)	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-272.33	-0.27	-2.18
	kWh/year 2072.41			
	Electric cost / year - 18.000 p/kWh <b>£373.03</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.6				

Designline (Drop In) Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC15ASHTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 817w	817	0.817	6.536
	3 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	19.5	0.0195	0.156
	4 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 18w ea.	72	0.072	0.576
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Assisted Serve Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-817	-0.817	-6.536
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	3 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-19.5	-0.0195	-0.156
Designline	4 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-272.33	-0.27	-2.18
	kWh/year 2072.41			
	Electric cost / year - 18.000 p/kWh <b>£373.03</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.6				

Designline (Drop In) Self Help Chilled Patisserie (Rear Doors/ Fixed Back) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC18HTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 787w	787	0.787	6.296
	4 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	26	0.026	0.208
	8 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 7x10w & 1x12w ea.	82	0.082	0.656
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Self Help Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-787	-0.787	-6.296
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	4 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-26	-0.026	-0.208
PC18FBHTD (Drop In)	8 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-262.33	-0.26	-2.10
	kWh/year 2070.77			
	Electric cost / year - 18.000 p/kWh <b>£372.74</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.6				

Designline (Drop In) Assisted Service Chilled Patisserie (Rear Doors) - (r290 Refrigeration)				
Model	Component	Rating (W)	kWh/hour	kWh/day
PC18ASHTD (Drop In)	Condensing unit On ( 8 hrs in 24 ) 787w	787	0.787	6.296
	4 no. EC Deck Fans On ( 8 hrs in 24 ) 6.5w ea.	26	0.026	0.208
	8 no. Canopy/Shelf LED Lights On ( 8 hrs in 24 ) 7x10w & 1x12w ea.	82	0.082	0.656
	Evap Tray Element On ( 1.5 hour in 24 ) 750w	750	0.75	1.125
Assisted Serve Cold Patiss. (Rear Doors)	Condensing Unit In Standby Mode ( 16 hours in 24 )	0	0	0
	Condensing Unit Off In Defrost ( 1 hour in 8 )	-787	-0.787	-6.296
	Coil Defrost Element On ( 1 hour in 8 ) 300w	300	0.3	0.3
	4 no. EC Deck Fans Off In Defrost ( 1 hour in 8 )	-26	-0.026	-0.208
Designline	8 no. Canopy/Shelf LED Lights Off ( 16 hrs in 24 )	0	0	0
	Condensing Unit Off ( Cycling At Temperature ( 20 mins per hr )	-262.33	-0.26	-2.10
	kWh/year 2070.77			
	Electric cost / year - 18.000 p/kWh <b>£372.74</b>			
CO2 emissions in tons/year (0.281 kg CO2 per kWh) 0.6				