

Existing coop local store

REPLACEMENT PLANT INSTALLATION

CLOVER WAY

WYGATE PARK

SPALDING

LINCOLNSHIRE

PE11 3GD

DESIGN STATEMENT

Introduction

This is an existing trading Lincolnshire Coop store.

As part of an upgrade to this store the Coop would like to replace some of the old less efficient plant with new quieter, energy efficient equipment.



View of the rear as existing.

Appearance

The additional plant to be mounted outside on the rear wall is to the rear of the store.

Access

There are no changes to the access proposed.

Heritage statement

The site is not in a conservation area.

Justification

To improve the energy efficiency and reduce the acoustic output by installing new plant.

Concluding statement

Improve energy use with new energy efficient plant to replace the older equipment.

Plant detail



franchill

SP series



Multi-compressor packaged units

Specification:

- 2,3 &4 Copeland scroll ZB & ZF compressors
- Vertical Discharge Condensers – coated fins for long life
- Fan Motors - energy efficient & low noise
- Liquid receiver with pressure relief valve assembly
- Dryer and sight glass assembly
- Electrical control panel with RDM/Carel controller

R404A Duties (watts) 50Hz EN12900 conditions 32 C ambient

Medium Temp Range		Evaporating Temperature (deg C)										
Model	Comps	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15
SP2-42M	2 x ZB21	12580	12160	11740	11320	10900	**10480**	10110	9740	9370	9000	8640
SP2-60M	2 x ZB30	17160	16580	16000	15420	14840	**14240**	13740	13240	12740	12240	11720
SP2-90M	2 x ZB45	25000	24160	23320	22480	21640	**20800**	20080	19360	18640	17920	17180
SP3-114M	3 x ZB38	31950	30870	29790	28710	27630	**26550**	25610	24670	23730	22790	21870
SP3-135M	3 x ZB45	37500	36240	34980	33720	32460	**31200**	30120	29040	27960	26880	25770
SP4-152M	4 x ZB38	42600	41160	39720	38280	36840	**35400**	34150	32890	31640	30390	29160
SP4-180M	4 x ZB45	50000	48320	46640	44960	43280	**41600**	40160	38720	37280	35840	34360
Low Temp Range		Evaporating Temperature (deg C)										
Model	Comps	-30	-31	-32	-33	-34	-35	-36	-37	-38	-39	-40
SP2-26L	2 x ZF13	6880	6400	6140	5880	5620	**5340**	5120	4900	4680	4460	4220
SP2-30L	2 x ZF15	8160	7840	7520	7200	6880	**6540**	6260	5980	5700	5420	5160
SP2-36L	2 x ZF18	9940	9560	9180	8800	8420	**8020**	7690	7360	7030	6700	6380
SP3-45L	3 x ZF15	12240	11760	11280	10800	10320	**9810**	9390	8970	8550	8130	7740
SP3-54L	3 x ZF18	14910	14340	13770	13200	12630	**12030**	11535	11040	10540	10050	9570
SP4-60L	4 x ZF15	16320	15680	15040	14400	13760	**13080**	12520	11960	11400	10840	10320
SP4-72L	4 x ZF18	19880	19120	18380	17600	16840	**16040**	15380	14720	14060	13400	12760

For R407F duties, derate R404a duties above by 4%
For R407A duties, derate R404a duties above by 6%
For 35C Ambient duties derate by a further 6%

Technical data

Model HT	Comp	HP	Fans	MRA amps	Rec L	Suc	Liq	Width	Depth	Height	kg	dba @10m
SP2-42M	2 x ZB21	8	2	18.40	16	1 1/8"	1/2"	1390	810	1650	280	38
SP2-60M	2 x ZB30	8	2	20.80	16	1 3/8"	5/8"	1390	810	1650	290	38
SP2-90M	2 x ZB45	12	2	26.50	16	1 3/8"	5/8"	1390	810	1650	300	38
SP3-114M	3 x ZB38	15	3	41.80	30	1 3/8"	5/8"	2150	810	1650	450	41
SP3-135M	3 x ZB45	18	3	42.70	30	1 5/8"	3/4"	2150	810	1650	460	41
SP4-152M	4 x ZB38	20	3	56.30	35	1 5/8"	3/4"	2150	810	1650	530	43
SP4-180M	4 x ZB45	24	3	57.50	35	2 1/8"	7/8"	2150	810	1650	540	43
Model LT	Comp	HP	Fans	MRA amps	Rec L	Suc	Liq	Width	Depth	Height	kg	dba @10m
SP2-26L	2 x ZF13	8	2	18.00	16	1 1/8"	1/2"	1390	810	1650	280	38
SP2-30L	2 x ZF15	10	2	22.00	16	1 1/8"	1/2"	1390	810	1650	290	38
SP2-36L	2 x ZF18	12	2	26.00	16	1 3/8"	5/8"	1390	810	1650	300	38
SP3-45L	3 x ZF13	15	3	35.40	30	1 3/8"	5/8"	2150	810	1650	450	41
SP3-54L	3 x ZF15	18	3	44.40	30	1 3/8"	5/8"	2150	810	1650	460	41
SP4-60L	4 x ZF15	20	3	47.40	35	1 5/8"	3/4"	2150	810	1650	530	43
SP4-72L	4 x ZF18	24	3	59.40	35	1 5/8"	7/8"	2150	810	1650	540	43

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