









Lloyd Electric & Engineering Ltd

Investor Presentation

March 2012

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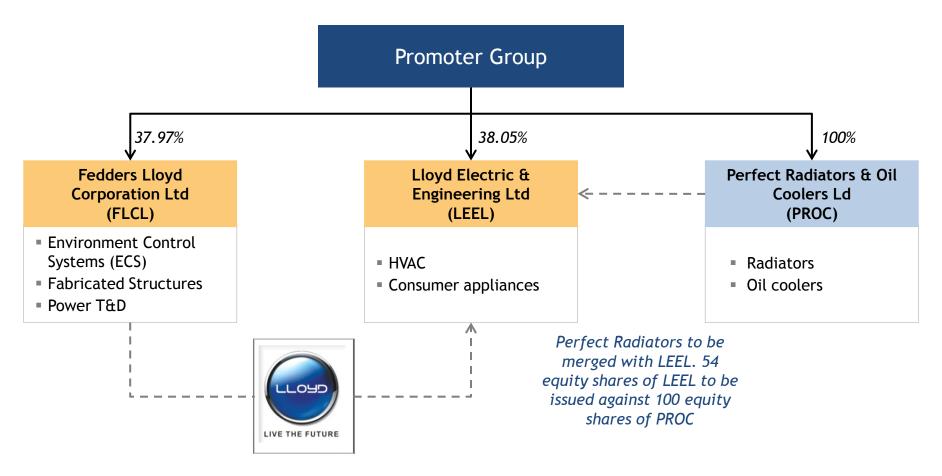
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Group Overview

Group Restructuring



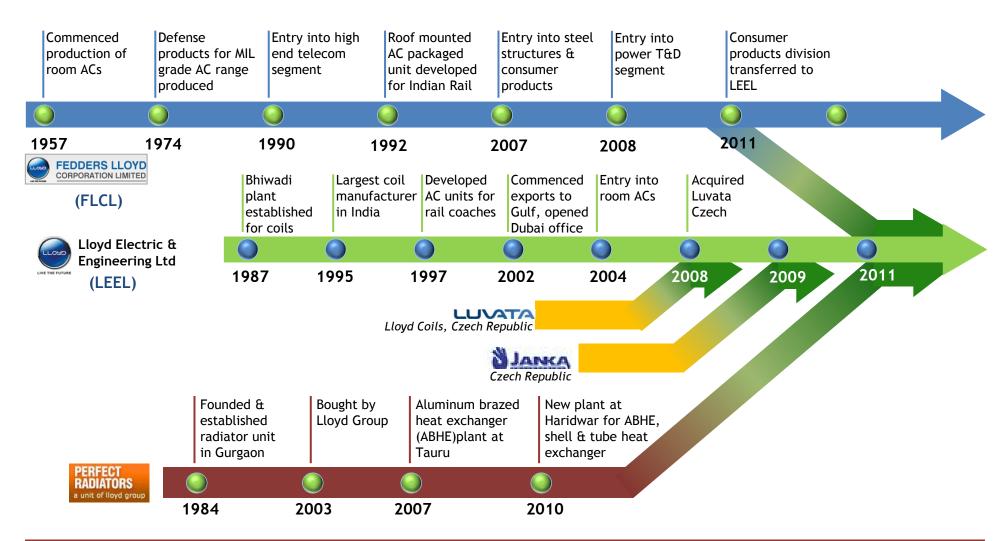


Lloyd logo & CPD* distribution network to be transferred to LEEL

*Consumer Products Division

Corporate History





Focus on core strengths and consolidating for long term competitive advantage



Lloyd Electric & Engineering Ltd (LEEL) Company Overview

Overview



Brief Introduction

- Promoted by promoters of Fedders Lloyd Corporation Ltd, leading HVAC group in India
- Listed on BSE in 1996
- Production capacity of over 1.2 mn coils & over 0.6 mn ACs annually
- ISO 9001 certified for HVAC products
- IRIS⁽¹⁾ certified for railway HVAC products
- International presence with wholly owned subsidiaries in Europe

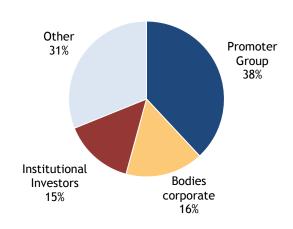
Key Financials (standalone) (Rs mn)

	FY07	FY08	FY09	FY10	FY11
Revenue	4,966	6,699	5,879	6,795	7,836
EBITDA	661	818	501	731	823
PAT	430	527	204	343	361
Net worth	2,994	3,510	3,714	4,022	4,321
Net debt	61	826	1,411	1,735	2,703

Key Products

- Heat exchangers
 - ⇒ Condensing & evaporating coils
 - ⇒ Sheet metal parts & components
 - ⇒ Industrial heat exchangers
- Air conditioning contract manufacturing for other OEMs
 - ⇒ Window & split ACs
- Air conditioning railway , metro, buses
- Consumer products (Lloyd branded)
 - ⇒ ACs, LCD/LED televisions

Shareholding Pattern



Product Profile - Lloyd Electric (LEEL)



Key Products







Key Markets







From Coils to Consumer - Present across value chain

Key Competitive Advantages



Vertical integration

- Presence across value chain (from coils to brand) better control on cost, low volatility of margins
- Hedge against cost/demand volatility in individual value chain elements

Manufacturing experience for leading players

- Over 50 years of experience in HVAC business
- Adherence to highest standards of quality followed by global players due to long term contracting relationships
- Technologically at par with the best in the business

Financial Benefits

- Dehradun, Kala Amb, Pantnagar & Haridwar plants enjoy tax holiday for 10 to 15 years
- Short term contracts protecting the company from commodity price fluctuations

Technological edge

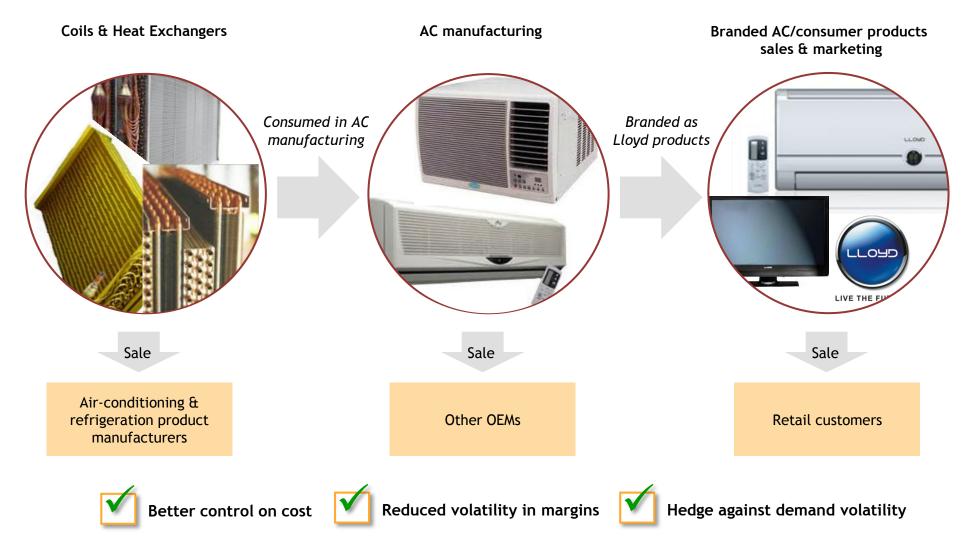
- Pioneer in PFC coils in India high efficiency, low weight & low cost
- Capability to develop heat exchanging applications for nuclear power plants with acquisition of Janka Engineering

Strong entry barriers

- Qualified Category I supplier for Indian Railways 80% of the tenders awarded to Category I players
- IRIS qualified will be able to bid for railway & metro projects internationally, first HVAC player in India with IRIS
- Strong consumer brand built by effective marketing campaign and history of selling consumer products

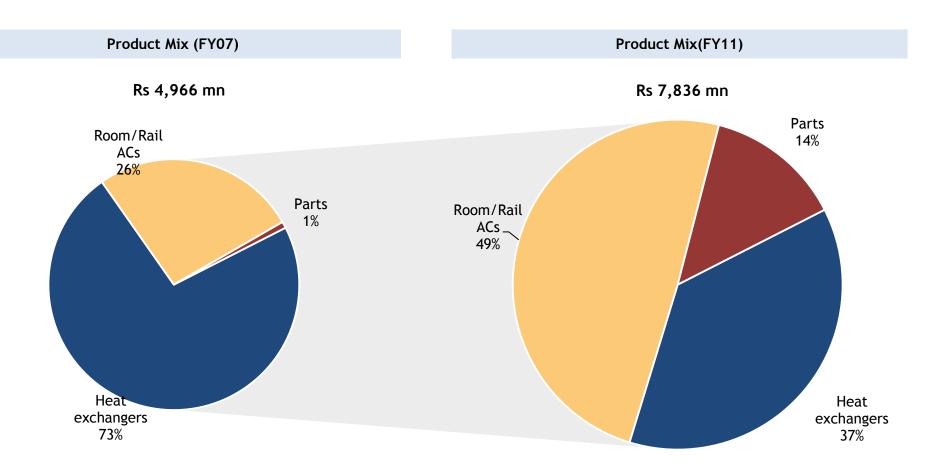
Fully Integrated Across HVAC Value Chain





LEEL - Share of ACs Has Grown to 50% in FY11 vis-à-vis 26% in FY07

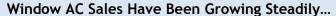


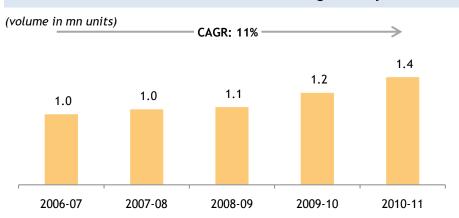


Rising focus on end products by leveraging product capabilities

Room AC Market Continues to Grow Rapidly



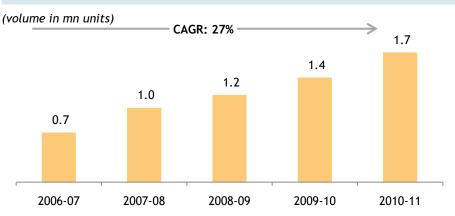




Sustainable Growth Drivers

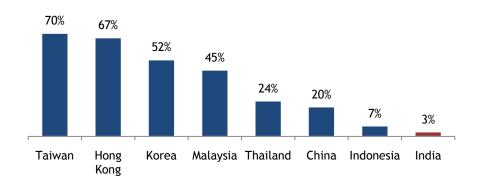
- Highly underpenetrated Indian household market
- Increasing affordability and financing options
- Increasing urbanization in tier II cities, improving power availability
- Robust growth in commercial segment
- Shift from being luxury product to being a necessary product
 - \Rightarrow Reduction of duty from 50% in 2002-03 to 10% currently

...But Surpassed by Split AC Sales Growth



Underpenetrated Indian Market vis-à-vis Other Asian Markets

(household penetration in %)

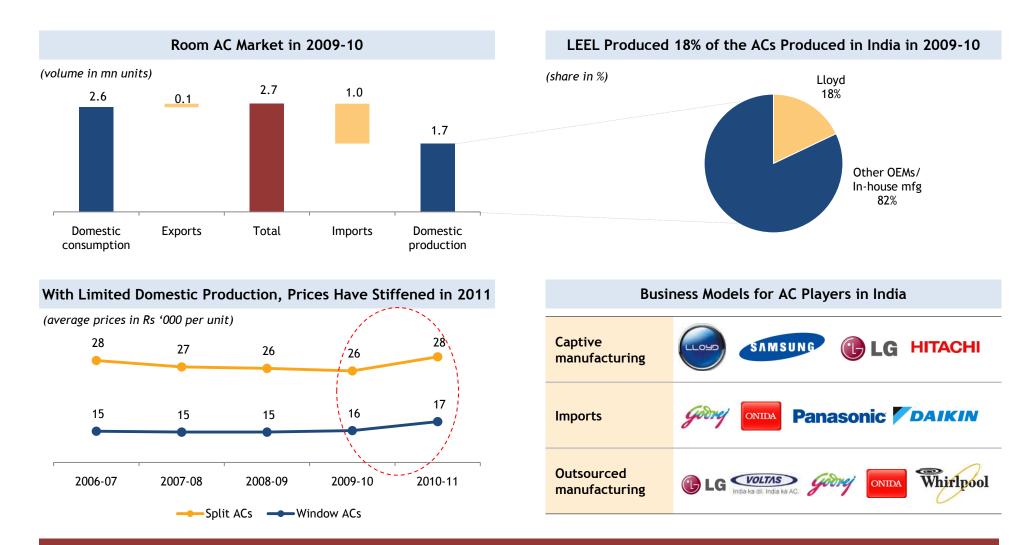


Low penetration and rising affordability have been the key to rapid growth in the segment

Source: Crisil Research

Domestic Production Will Be Key to Servicing the Growing Indian Market



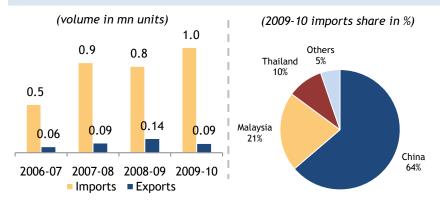


LEEL's domestic production base acts as a key strength when other players relook at their manufacturing strategies

Imports May Not be Sustainable

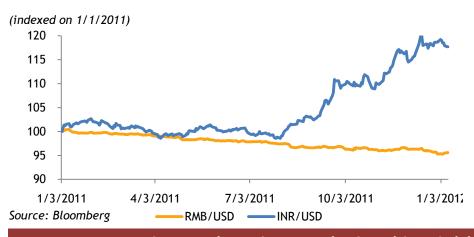


AC Imports Have Been Rising, Mostly from China



Source: Directorate General of Foreign Trade

INR Has Depreciated Over 22% Relative to RMB in 2011

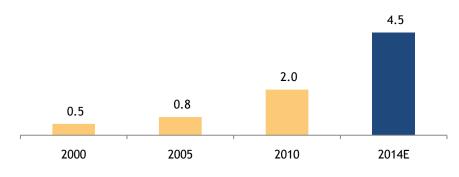


India Increasingly Becoming More Competitive for Manufacturing

- Manufacturing labor cost has been rising in China
- Strengthening Yuan and weakening Rupee have made India relatively more competitive than China for AC manufacturing
- With FTAs, India is more competitive in exporting to South & South East Asian nations
- Players totally dependant on Chinese imports likely to commence sourcing from Indian manufacturers
- With increasing scale in India, economics expected to improve further

Labor Cost in Chinese Manufacturing Has been Rising Consistently

(fully loaded factory worker wages in USD/hr)



Source: BCG

LEEL has consistently grown in the midst of rising imports, positioned strongly as imports peak out

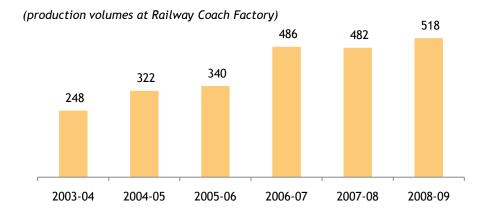
Railway Air-conditioning Segment



Key Growth Drivers

- Capacity augmentation by India Railways
 - ⇒ Targeted addition of 2,800 km, capex of Rs 200 Bn p.a.
 - ⇒ Line enhancement of 6,500km, capex of Rs 170 Bn p.a.
 - ⇒ New rail coach factory commissioned in Raebareili
- Metro rail projects
 - ⇒ Under construction metro projects in 8 cities
 - ⇒ 8 metro projects in pipeline
- International markets with IRIS⁽¹⁾ certification, eligible to bid internationally

RCF⁽²⁾, Kapoorthala Has Been Ramping Up AC Coach Production



Key Products

Roof Mounted Packaged Unit (RMPU) for AC rail coaches





Roof Mounted Packaged Unit (RMPU) for LHB coaches





Roof Mounted Packaged Unit (RMPU)

for metro rail





With increasing coach production in India, RMPUs is a rapidly growing market

Heat Exchangers - Market Overview



Key Application Areas



Room Air Conditioners



Commercial Refrigeration



Automobile Air Conditioners



Precision Air Conditioners



Rail Air Conditioners



Industrial heat exchanger

Key Products

- Condenser coils
- Evaporator coils
- Fin & tube heat exchangers
- Sheet metals parts & components

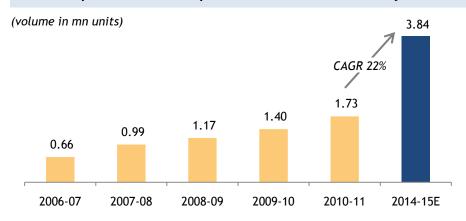
Market Leadership

- Room ACs and refrigeration are fastest growing segments for coils
 - Retail market is the primary driver for these segments
- LEEL is the leading layer with largest market share in non-industrial heat exchangers
- Other key players include
 - ⇒ Advantec
 - ⇒ Spirotec

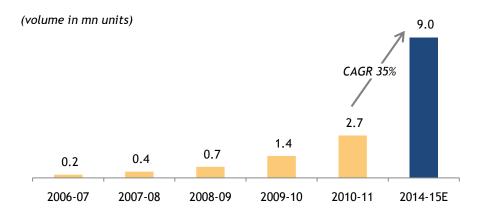
Rapidly Growing Consumer Electronics Market of India



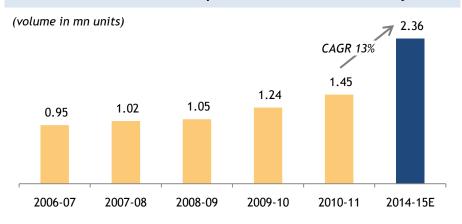
Split AC Market Expected to Grow 22% Annually



LCD/LED TVs is the Fastest Growing Consumer Electronic



Window AC Market Expected to Grow 13% Annually



Key Growth Drivers for Consumer Electronics

- Rising affordability with rising per capita income
- Changing consumer preferences with increasing demand for lifestyle products
- Falling prices of consumer electronics
- Increasing urbanization
- Easy access to financing

Consumer electronics is expected o be a high demand product category for the next few years

Source: Crisil Research

Consumer Products Division - leveraging product experience



Introduction

- Effective from July 1, 2011, consumer products division of Fedders Lloyd transferred to Lloyd Electric
- Key products of CPD window & split ACs and LCD/LED TVs
 - → Other products tower & cassette ACs, clothes dryer, chest freezer & garment steamer
- Aggressive marketing campaign with celebrity brand ambassador

Key Competitive Advantages

- Vertically integrated cost control
- Rich product development experience, technologically at par with the best
- Significant capacity in India better proximity to markets
- Leveraging brand across products
 - ⇒ Facilitated entry into LCD/LED TVs
- Strong brands with history of over 50 years

Product Portfolio - High Growth Products







Window ACs

Split ACs

LCD/LED TVs

Product Portfolio - Niche Consumer Products







Chest freezer



Garment steamer

Poised for a long term play in consumer products with sustainable advantages

Consumer Products Division - unique strategy



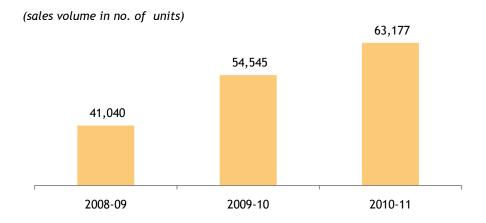
Differentiated Business Model

- Bouquet of high growth and niche products
- Active dealer management unique 'Low Penetration High Retention' business model where regional exclusivity is offered to dealers
- Higher margin for dealers vis-à-vis competition
- Tie up with large national retail chains along with regional retailers

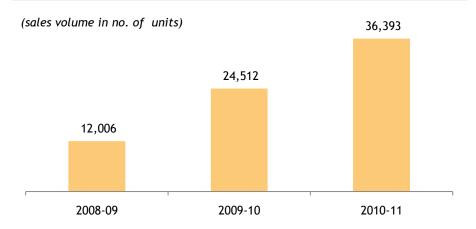
Marketing Strategy

- Aggressive marketing campaign with celebrity brand ambassador
- Comprehensive network of over 2,800 dealers nationwide
- Higher advertising spends with growing acceptance of the product in the market
 - ⇒ Rs 28 mn in 2008-09 to Rs 66 mn in 2010-11
- Extracting value of brand by entering new and niche product segments

Rapid Scale up in Sales of ACs in Last 2 Years...



...Accompanied by Expanding LCD/LED Sales



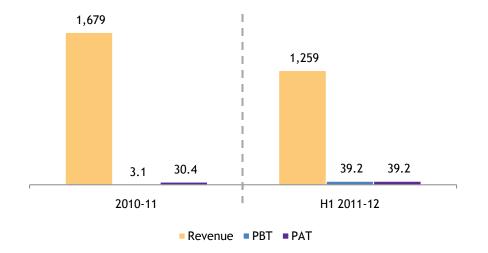
With active marketing and differentiated strategy, the brand has made early inroads in the market

International Presence - Lloyd Coils Europe s.r.o.



Overview

- Acquired from Luvata Group in May 2008, now 100% subsidiary of LEEL
- Manufacturing plant located in Prague, Czech Republic
 - ⇒ Sales offices in Lyon (France), Derby (UK), Essen (Germany)
- Market coverage across entire European region
 - ⇒ Key markets- France, Germany, Spain, Germany, UK, Slovakia
- Successfully transferred technology to Indian operations to cater to global client at multiple locations
- Key financials (Rs mn)⁽¹⁾



Product Portfolio



Condenser coils for HVAC&R

remote condensers, condensing units, close control AC, chillers, showcases, display cases, bottle coolers, milk tanks, transportation AC and refrigeration

Evaporator coils for HVAC&R

close cont-rol AC, rooftops, air-handling units, fan-coils, ducted systems, air curtains and transportation AC, bottle coolers



Reversible coils

heat pumps, dehumidifiers



unit heaters, fan coils, convectors, air handling units, ducted systems, air curtains and cold beams and glycol heat recuperation circuits





Special or industrial coils

Oil coolers for hydraulic systems; water and liquid coolers for industry and power plants

Aluminum coils

lighter and cheaper substitute to copper coils



Gives access to international markets & technology

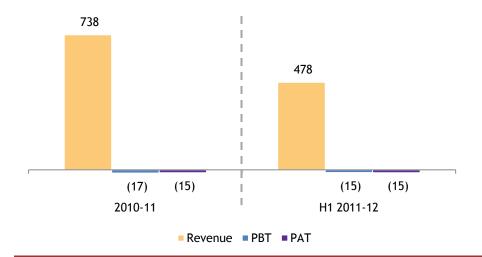
(1) 1 Euro = INR 70

International Presence - Janka Engineering s.r.o.



Overview

- Acquired from LENNOX, USA in 2009
- 100 years of experience in air conditioning solutions
- 100% subsidiary of LEEL
- Manufacturing plant located in Prague, Czech Republic
 - ⇒ Sales offices in Lyon (France), Derby (UK), Essen (Germany)
- Key financials (Rs mn)⁽¹⁾



Product Portfolio				
Air handling units	KLM, KLMV, KLME, KLMQ			
Air conditioning	condensing unit, chillers, rooftops, fan coils, dry coolers, compact units			
Fans	single inlet, double inlet, low pressure, middle pressure, specialized			
Industrial cooling	duct & steam heat exchangers, industrial heaters & coolers, cooling batteries for locomotives			

Highlights

- Single supplier of cooling units to nuclear power project in Slovakia
- Supplier to nuclear power project in Czech Republic
- Developing new range of Tram AC units for Prague tramways
- Development of under-ceiling unit under way

Helps LEEL extend its core air conditioning skills to European markets

(1) 1 Euro = INR 70

Production Facilities - LEEL



Location	Product Lines	Capacity (No. of Units)	Status	
	Heat exchangers	1,025,000		
Bhiwadi, Rajasthan	Fan coils, cooling units	10,000	Operational for last 23 years	
biliwadi, Kajastilali	A/Cs (railway)	2,000	operational for tast 23 years	
	Sheet metal	300,000		
Kala Amb, Himachal Pradesh	Heat exchangers	200,000	Operational	
Rata Amb, Himachat Fradesii	A/Cs (window, split)	200,000		
Dehradun, Uttarakhand	A/Cs (window, split) 200,000		Operational	
Pant Nagar, Uttarakhand	A/Cs (split) 201,000		Operational	
Ranipet, Tamil Nadu	A/Cs (window, split)	100,000	Operational	
Haridwar, Uttarakhand	A/Cs (railway) 6,000		To be commissioned in September 2012	

Adherence to Highest Standards of Quality











ISO 9001-2008 - Quality Management System UL Certification from Underwriters Laboratories, USA International Railway
Industry Standards (IRIS)
certification

Company's quality policy



Perfect Radiators & Oil Coolers Ltd(PROC) Company Overview

Overview



Introduction

- One of the largest maker of mechanically bonded radiators in India
- Manufacturing capacity of 100,000 units/annum
 - \Rightarrow State of the art production facilities at Haridwar & Tauru
- Manpower of 400 including engineers, supervisors & workmen
- ISO 9001, ISO 14001 & OHSAS 18001, IRIS certified

Key Financials

(Rs mn)	FY08	FY09	FY10	FY11
Revenue	950	1,129	1,311	1,456
EBITDA	30	50	85	101
PAT	16	15	108(1)	53
Net worth	92	109	246	299
Net debt	318	278	232	55

Key Products







Oil coolers



Charge Air Coolers



Radiators - auto, farm eqpt, earthmoving eqpt



Shell & tube heat exchangers



Cooling systems components

Key Application Areas

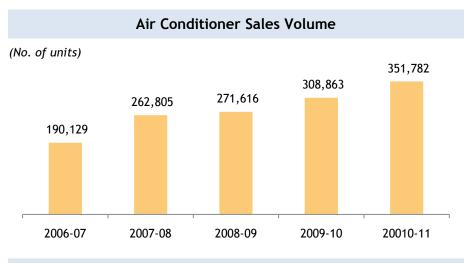
- Automobile cooling systems
- Earth moving equipment
- Compressors & air conditioning
- Captive power plants
- Defence systems
- Locomotives

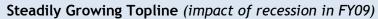


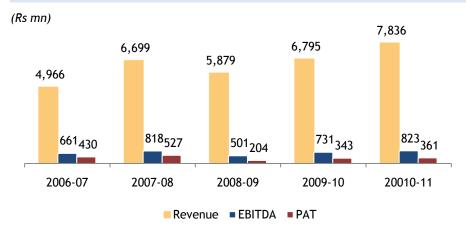
Financial Overview

Key Financials - *Income Statement (standalone)*

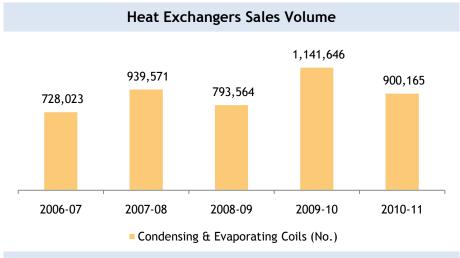




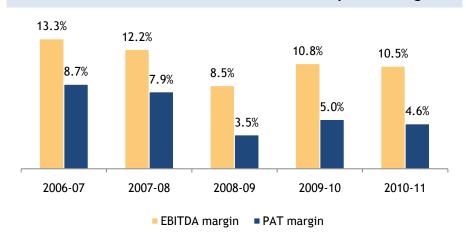




Heat exchanger volumes vary with varying size of the product every year Margins have stabilized after re-adjustment of LME prices



Raw Material Prices & Interest Rates Have Impacted Margins



Key Financials - Balance Sheet (standalone)



(Rs mn)	2006-07	2007-08	2008-09	2009-10	2010-11
SOURCES OF FUNDS					
Shareholders' Funds	2,994	3,510	3,714	4,022	4,321
Debt	1,102	1,536	1,736	1,909	3,306
Deferred Tax Liability	57	33	47	78	106
TOTAL	4,154	5,079	5,496	6,009	7,733
APPLICATION OF FUNDS					
Net Fixed Assets (with CWIP)	1,478	1,939	1,997	2,126	2,402
Net Current Assets (ex-cash)	1,606	2,381	2,929	2,869	3,813
Cash	1,042	710	325	174	603
Others	28	48	245	840	915
TOTAL	4,154	5,079	5,496	6,009	7,733

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