

*Moser Baer is a world leader in the development and manufacture of removable data storage media. Incorporated in 1983, the company is today one of India's leading technology companies and ranks among the top three optical storage media manufacturers in the world. Headquartered in New Delhi, India, it has a broad and robust product range of floppy disks, compact discs (CDs) and digital versatile discs (DVDs).*



## VLT® drives for 12 leading brands of data storage media

**Convinced with the much superior harmonic performance of VLT® drives and AHF's and significant average energy saving of over 30% on each air handling unit, Moser Baer placed an order for supply of further 40 VLT® drives, AHFs and Flow Sensors.**

A pioneer among globalizing Indian firms, Moser Baer has a presence in over 82 countries, serviced through six marketing offices in India, the US and Europe, and enjoys strong tie-ups with all major global technology brands. Moser Baer is OEM supplier to all the 12 leading storage media brands in the world.

The Greater Noida Facility of Moser Baer has a large HVAC System of several thousand tons which provides clean room, temperature & humidity controlled environment to the processing area where optical storage media are manufactured. The air distribution system comprises 118 Nos 30kW AHUs which blow air-conditioned air through a set of pre-filters, fine filters and HEPA filters into the process area. Prefilters are cleaned every week whereas fine filters are cleaned every month. Whenever the filters are clean, AHUs tend to over pump the air & on clogging reach a condition of under pumping. Consequently, the clean room conditions remain disturbed because of variation in air flow and also lead to wastage of significant energy.

A series of interactions of MC-Delhi team

though convinced the customer about the benefits of VLTs on AHUs to optimize the process & achieve energy savings but the bad past experience of high harmonics produced by large existing other makes of drives (approx 550kW) & consequent equipments tripping and production losses continuously haunted the customer.

Danfoss presented AHF Solution to the customer and had marathon discussions to convince them to go ahead with a trial on 4Nos. AHUs to begin with in Oct 2005. The 1st lot of VLTs & AHF005 were commissioned in Nov 2005 and in Dec05 Danfoss demonstrated that THID of VLTs with AHF was less than 5%. Whereas, THID of various drives of other makes exceeded 50%.

Moser Baer observed the performance of VLTs & AHFs until March06. Convinced with the much superior harmonic performance of VLTs & AHFs and significant average energy saving of over 30% on each AHU, Moser Baer placed another order on Danfoss in April06 for supply of 40 VLTs, AHFs and Flow Sensors.